

## Tape printing device and tape cartridge used therein

**Publication number:** CN1087583

**Publication date:** 1994-06-08

**Inventor:** NUNOKAWA MASAHIKO (JP); WATANABE KENJI (JP)

**Applicant:** SEIKO EPSON CORP (JP)

**Classification:**

- international: **B41J3/407; B41J11/00; B41J17/32; B41J32/00; B41J33/36; B41J35/28; B41J35/36; B41J3/407; B41J11/00; B41J17/32; B41J32/00; B41J33/14; B41J35/28; B41J35/36; (IPC1-7): B41J2/315; B41J29/00**

- European: **B41J3/407L; B41J11/00D1; B41J11/00P; B41J11/00U; B41J17/32; B41J32/00; B41J33/36; B41J35/28; B41J35/36**

**Application number:** CN19931014433 19931006

**Priority number(s):** JP19920267166 19921006; JP19920300304 19921013; JP19920294991 19921104; JP19930047492 19930212

**Also published as:**



EP0592198 (A2)  
US5492420 (A1)  
EP0592198 (A3)  
CN1480338 (A)  
EP0592198 (B1)

more >>

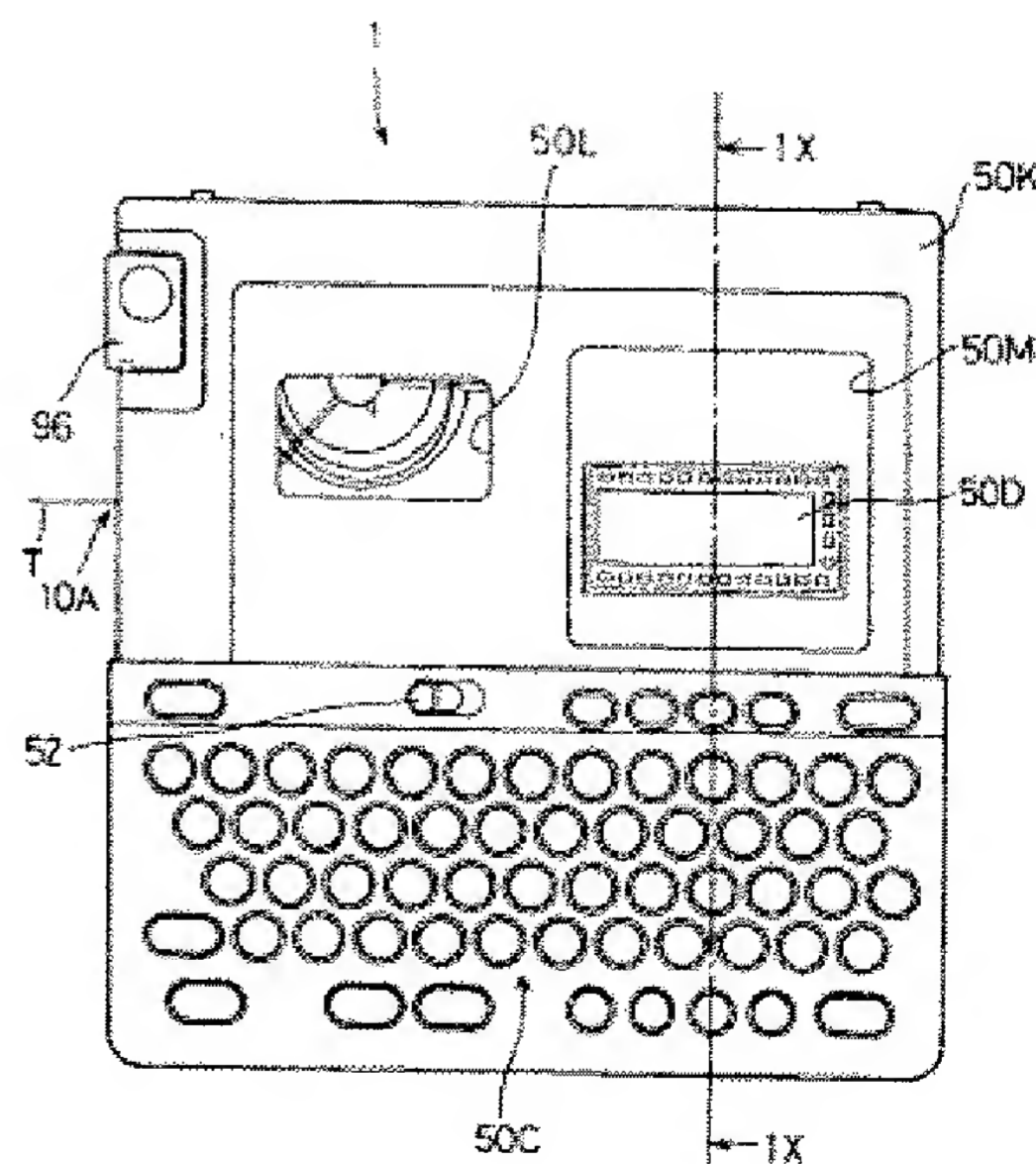
[Report a data error here](#)

Abstract not available for CN1087583

Abstract of corresponding document: **EP0592198**

The present invention provides a tape printing device for printing a desirable series of characters on a tape and cutting the tape to a label of a desirable length, and also a tape cartridge used in the tape printing device. The tape cartridge has a characteristic element readably storing specific information on the tape such as a width of the tape. The tape printing device reads the characteristic element to control printing conditions according to the type of the tape cartridge. More specifically, the tape printing device determines a variety of parameters including a number of lines and character sizes of the character series printed on the tape as well as lengths of left and right margins. When a tape of a relatively large width is set in the tape cartridge, the device increases a rotation torque of a platen for feeding the tape. When a tape of a relatively small width is set in the tape cartridge, on the contrary, the device drives only specific dot elements in a range of the tape width out of all dot elements arranged on a printing head. The characteristic element of the tape cartridge stores the specific information expressed as depths of a plurality of holes or electric data. This specific information may be updated to identify a user or detect a residual amount of the tape.

Fig. 1



Data supplied from the **esp@cenet** database - Worldwide

[19]中华人民共和国专利局

[11] 公开号 CN 1087583A



## [12] 发明专利申请公开说明书

[21]申请号 93114433.7

[51]Int.Cl<sup>5</sup>

B41J 2/315

[43]公开日 1994年6月8日

[22]申请日 93.10.6

[30]优先权

[32]92.10.6 [33]JP[31]267166/92

[32]92.10.13[33]JP[31]300304/92

[32]92.11.4 [33]JP[31]294991/92

[32]93.2.12 [33]JP[31]47492/93

[71]申请人 精工爱普生株式会社

地址 日本东京

共同申请人 株式会社吉姆帝王

[72]发明人 布川正彦 渡边健二

[74]专利代理机构 中国专利代理(香港)有限公司

代理人 程天正 马铁良

B41J 29/00

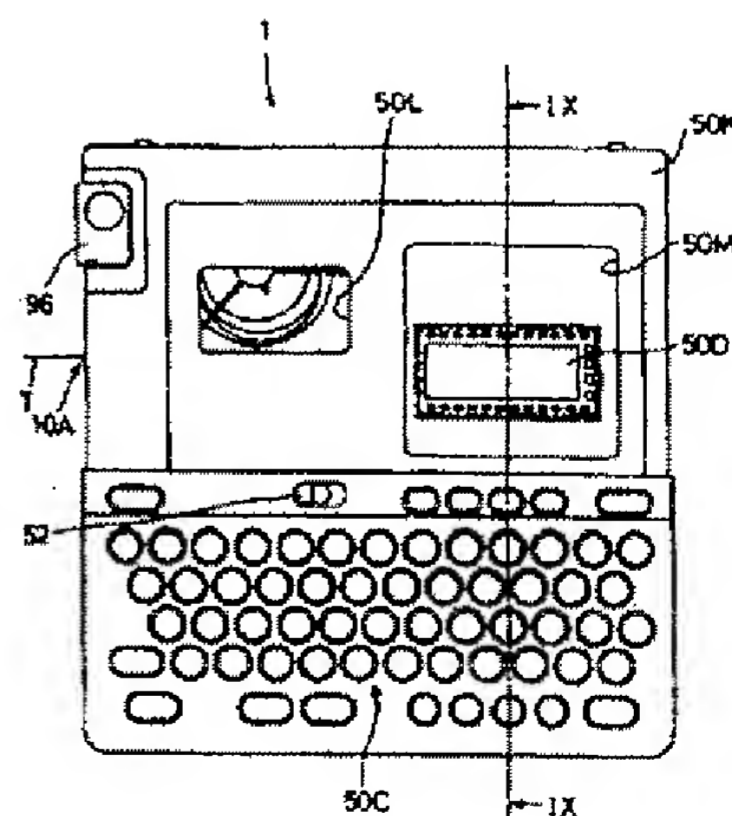
说明书页数:

附图页数:

[54]发明名称 条带打印装置及其所用的条带架

[57]摘要

本发明提供一种用于将所期望的字符串打印在条带上并将之切割成所需长度的标签的条带打印装置,也提供一种用于该装置的条带架。条带架有可读取贮存在条带上的特种信息如条带宽度的特种元件。条带打印装置根据条带架的类型读取特种元件以控制打印状况。更特别地,该条带打印装置决定包括打印在条带上的字符大小,行数以及左右边界长度在内的各种参数。



## 权 利 要 求 书

1、一种容纳一条带，并可拆卸地装在条带打印装置上，用于在条带上打印所期望的字符串的条带架，该条带架具有：

一个特种元件，该元件对于条带打印装置以可读取的方式在条带上贮存专门信息。

2、如权利要求 1 所述条带架，其特征在于，在特种元件上的专门信息包括条带架的形状，这种信息可由条带打印装置以机械方式读取。

3、如权利要求 1 所述条带架，其特征在于，在特种元件上的专门信息是一种多个孔的组合，其可由条带打印装置以机械方法读取。

4、如权利要求 3 所述条带架，其特征在于，特种元件的成形使得条带架之类型可以用裸眼来辨别。

5、如权利要求 1 所述条带架，其特征在于，特种元件将条带上的专门信息以电气数据方式贮存。

6、如权利要求 1 所述条带架，其特征在于，特种元件以磁性数据方式贮存条带上的专门信息。

7、如权利要求 1 所述条带架，其特征在于，特种元件以光学数据的方式贮存条带上的专门信息。

8、如权利要求 5 所述条带架，其特征在于，贮存在特种元件内的电气数据是可以被修正的。

9、如权利要求 1 所述条带架，其特征在于，贮存在特种元件内的条带上的专门信息还包括条带的宽度。

10、一种可拆卸地接收一个其内容纳条带的条带架、用于

图 1

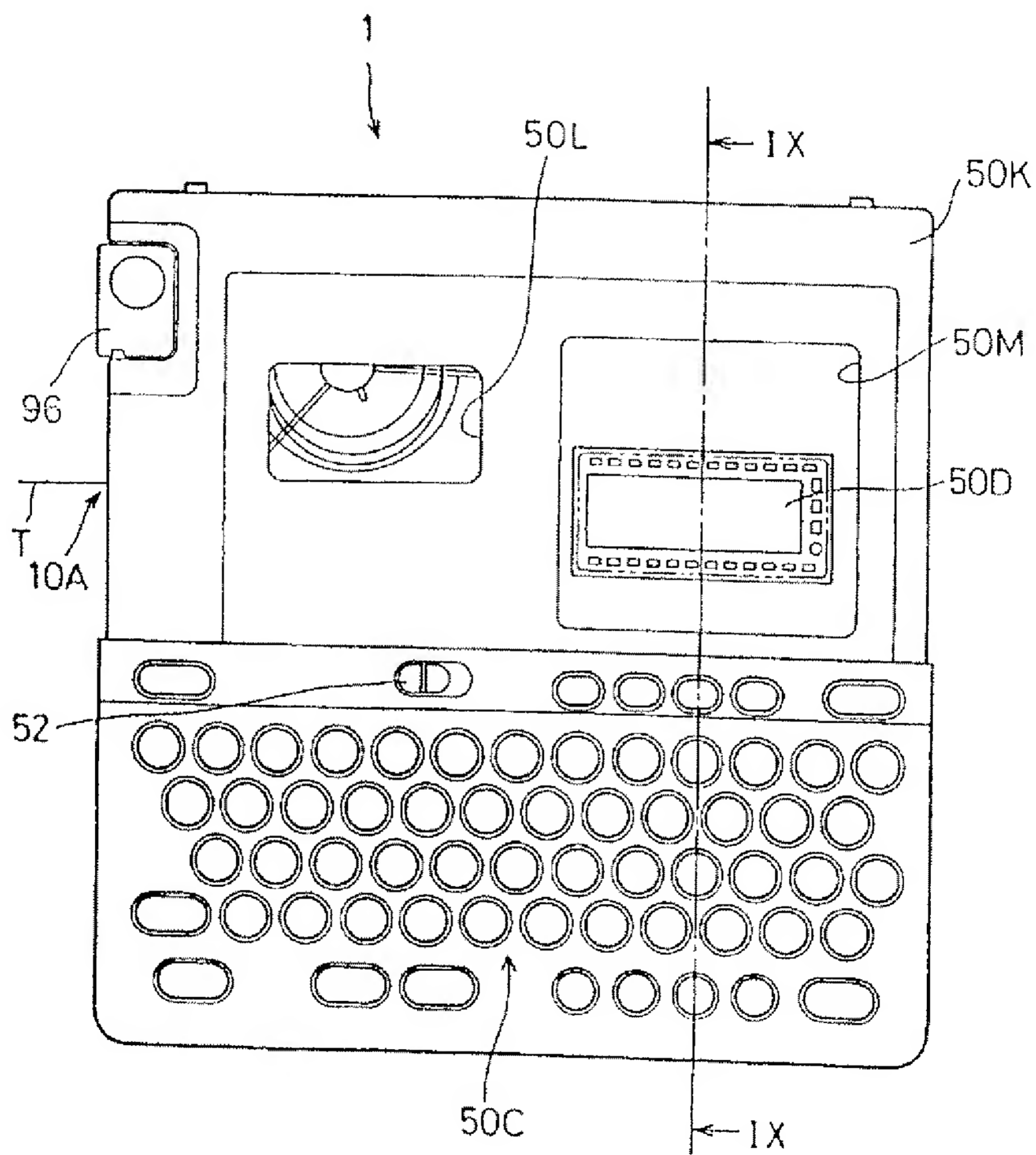


图 2

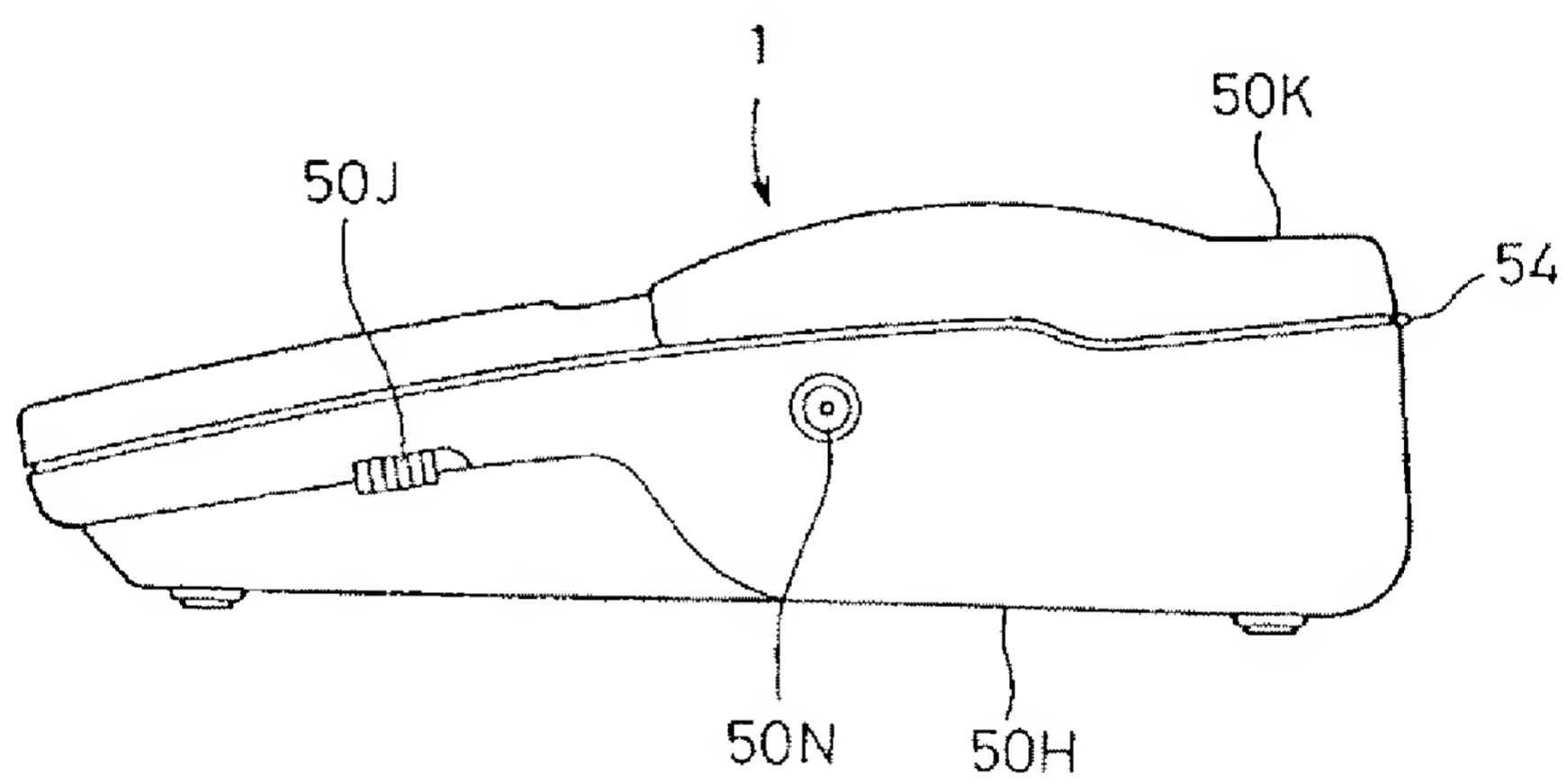


图 3

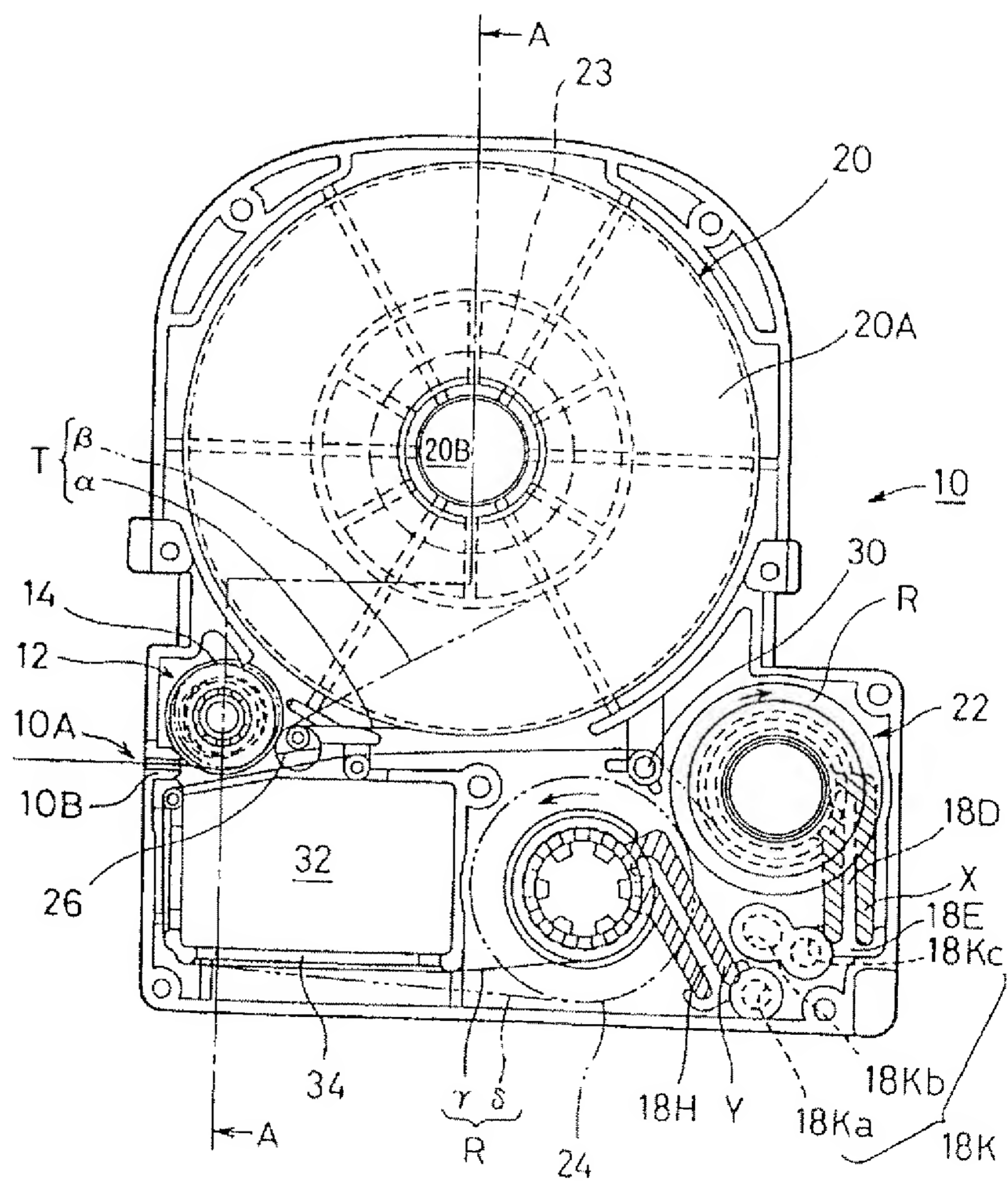


图 4

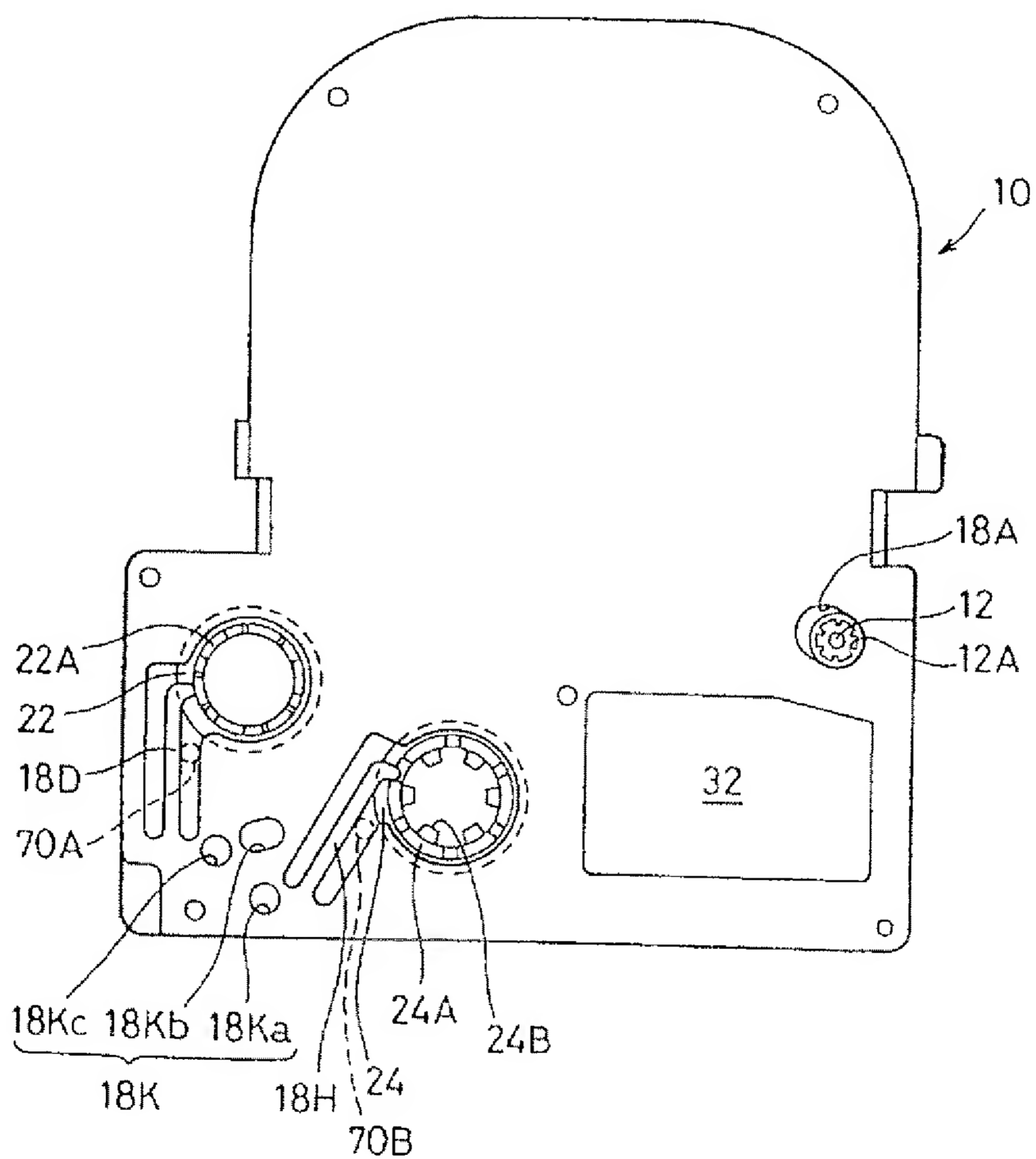


图 5

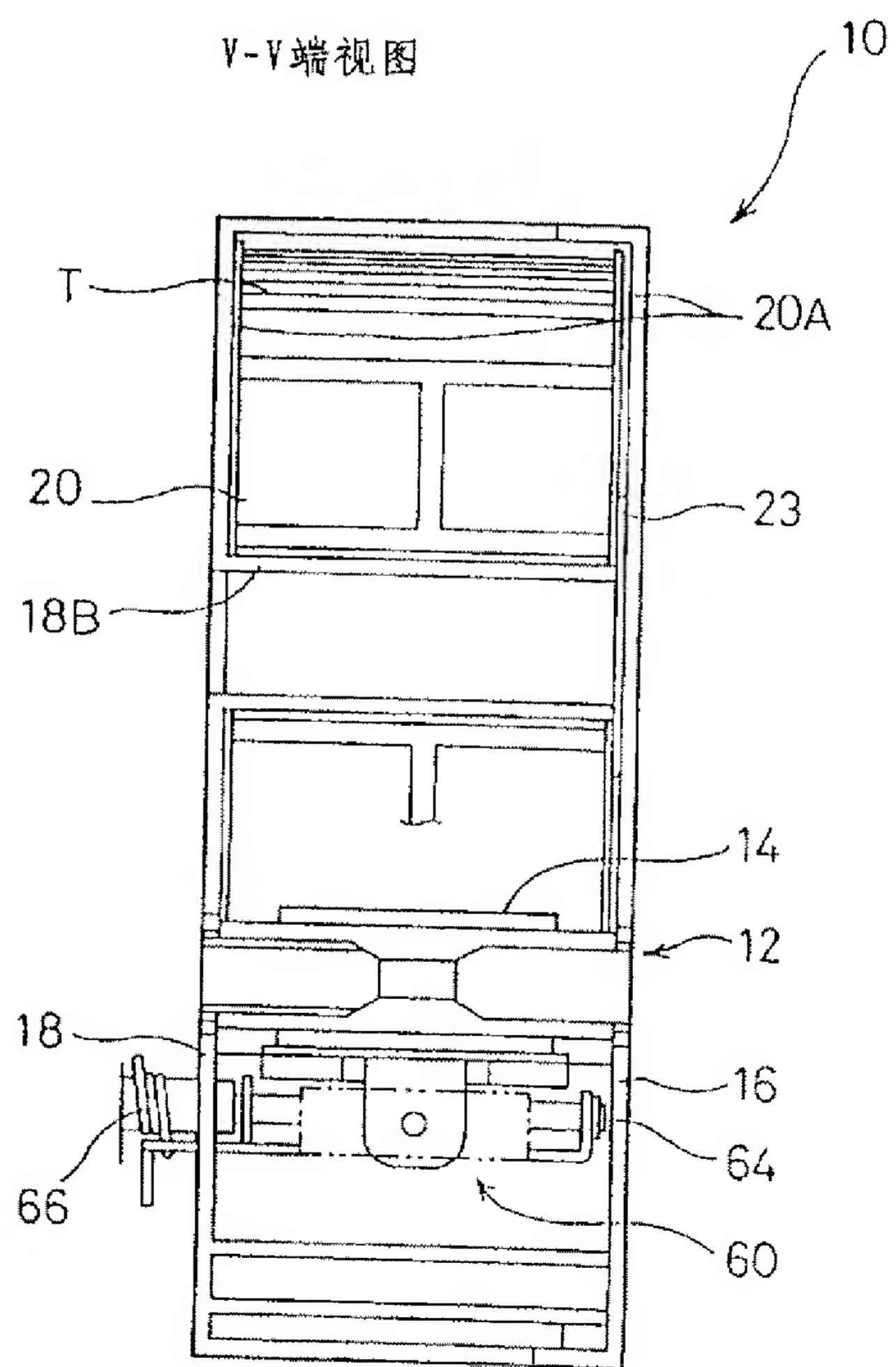


图 6

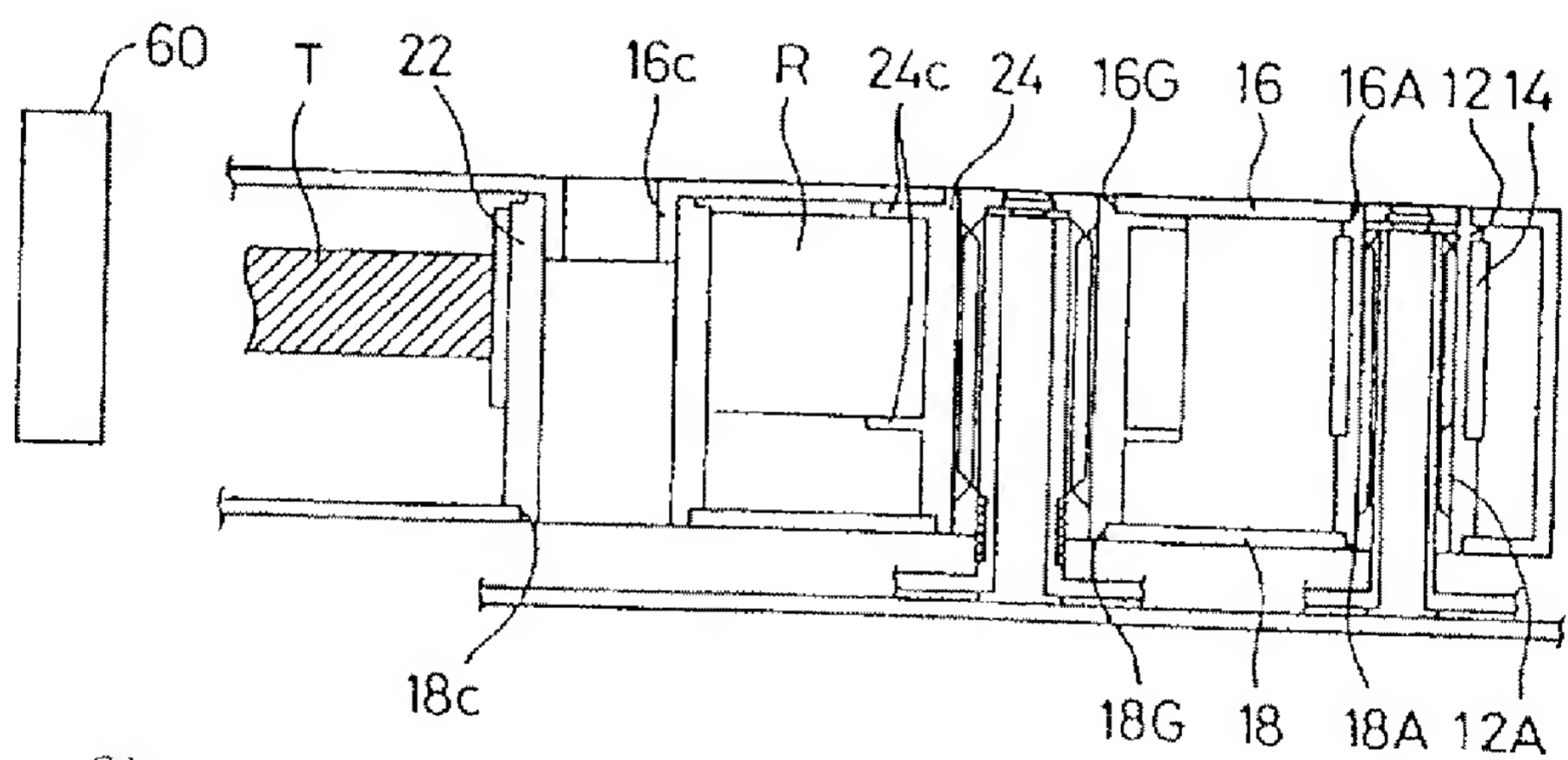


图 7

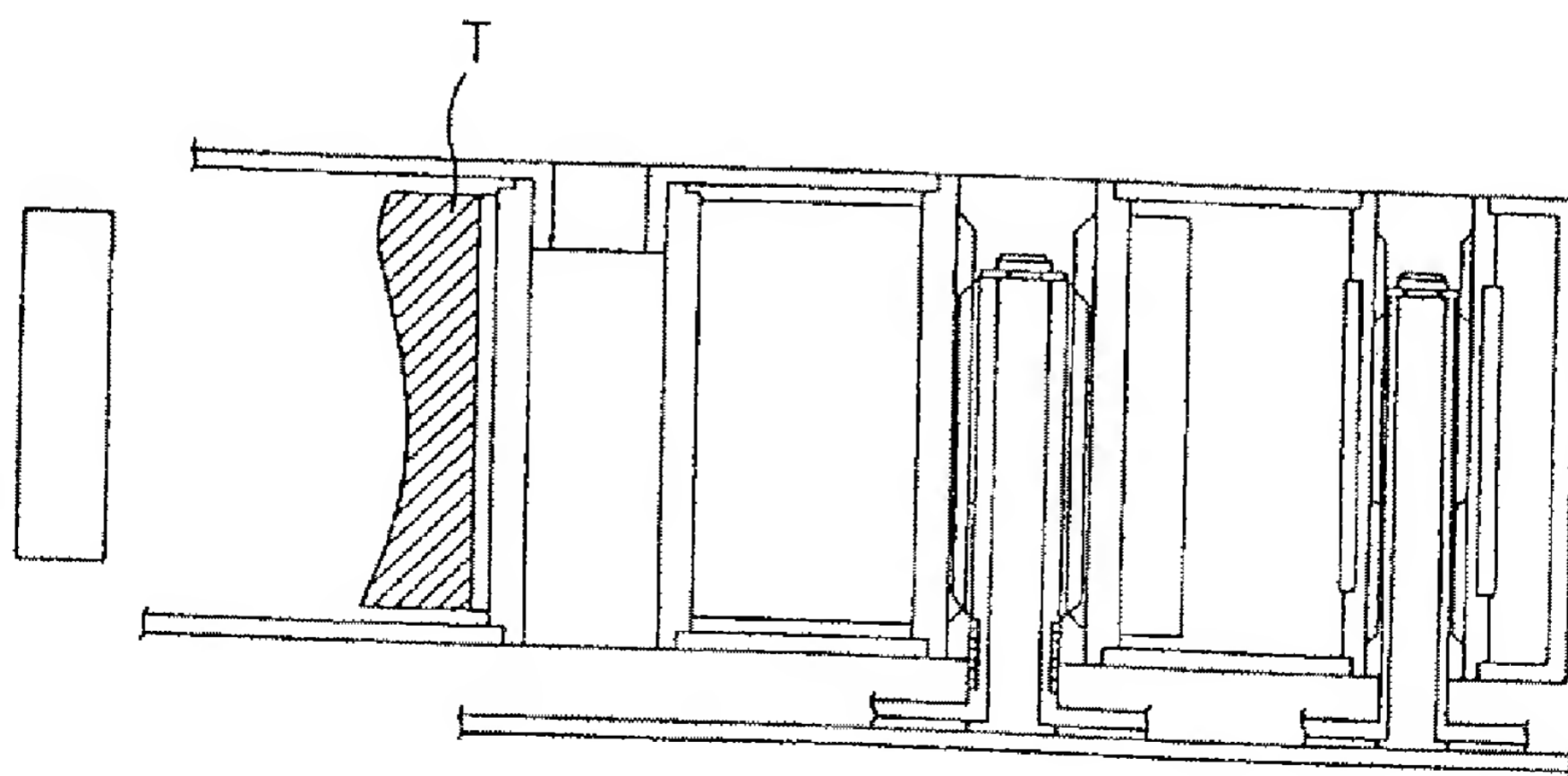


图 8

条带宽度	检测孔18K的深度		
毫米[mm]	18K a	18K b	18K c
6	S	S	S
9	D	S	S
12	S	D	S
18	S	S	D
24	D	D	S

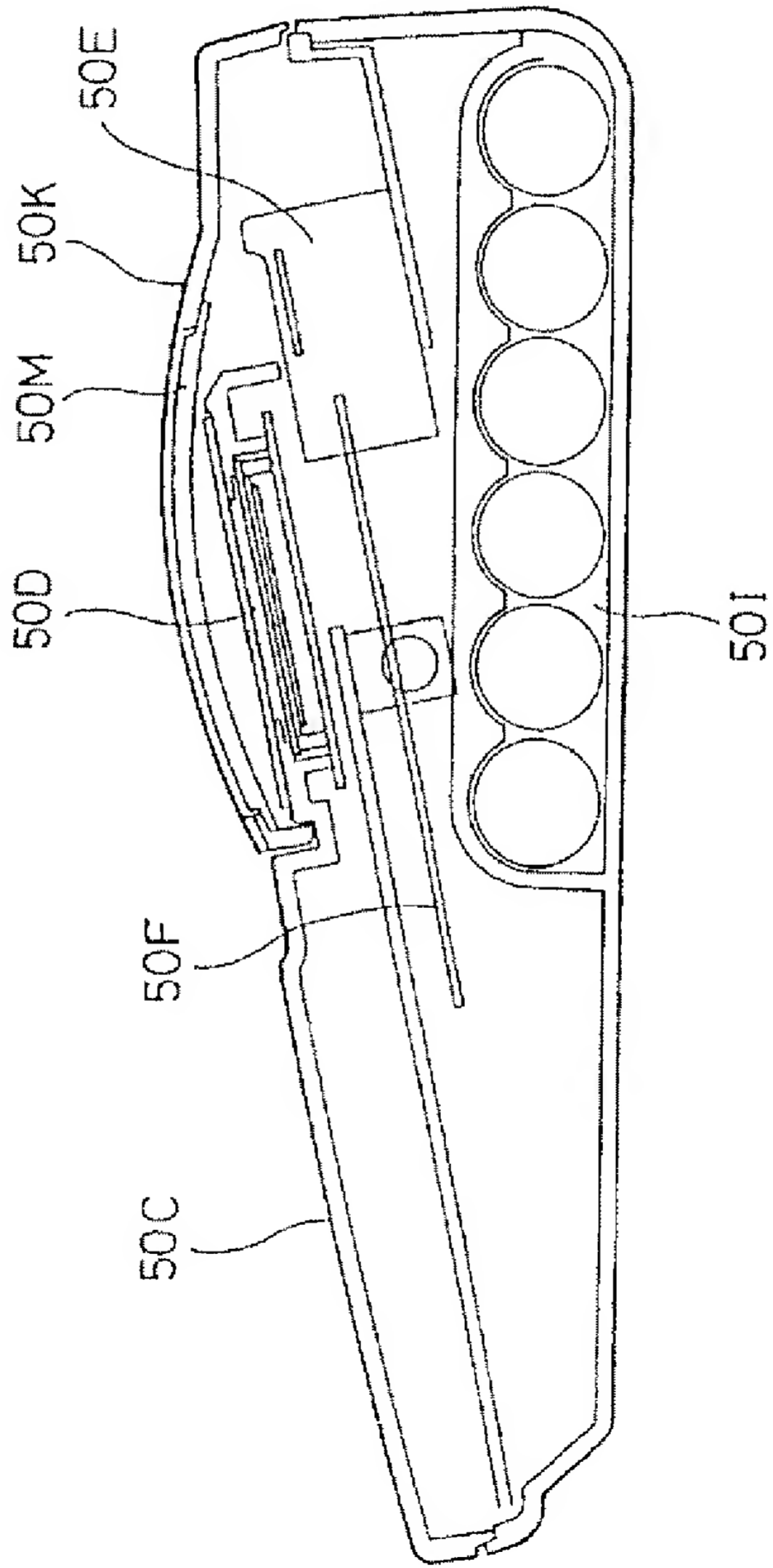
S: 浅

D: 深



9

8



IX-IX端视图

图 10

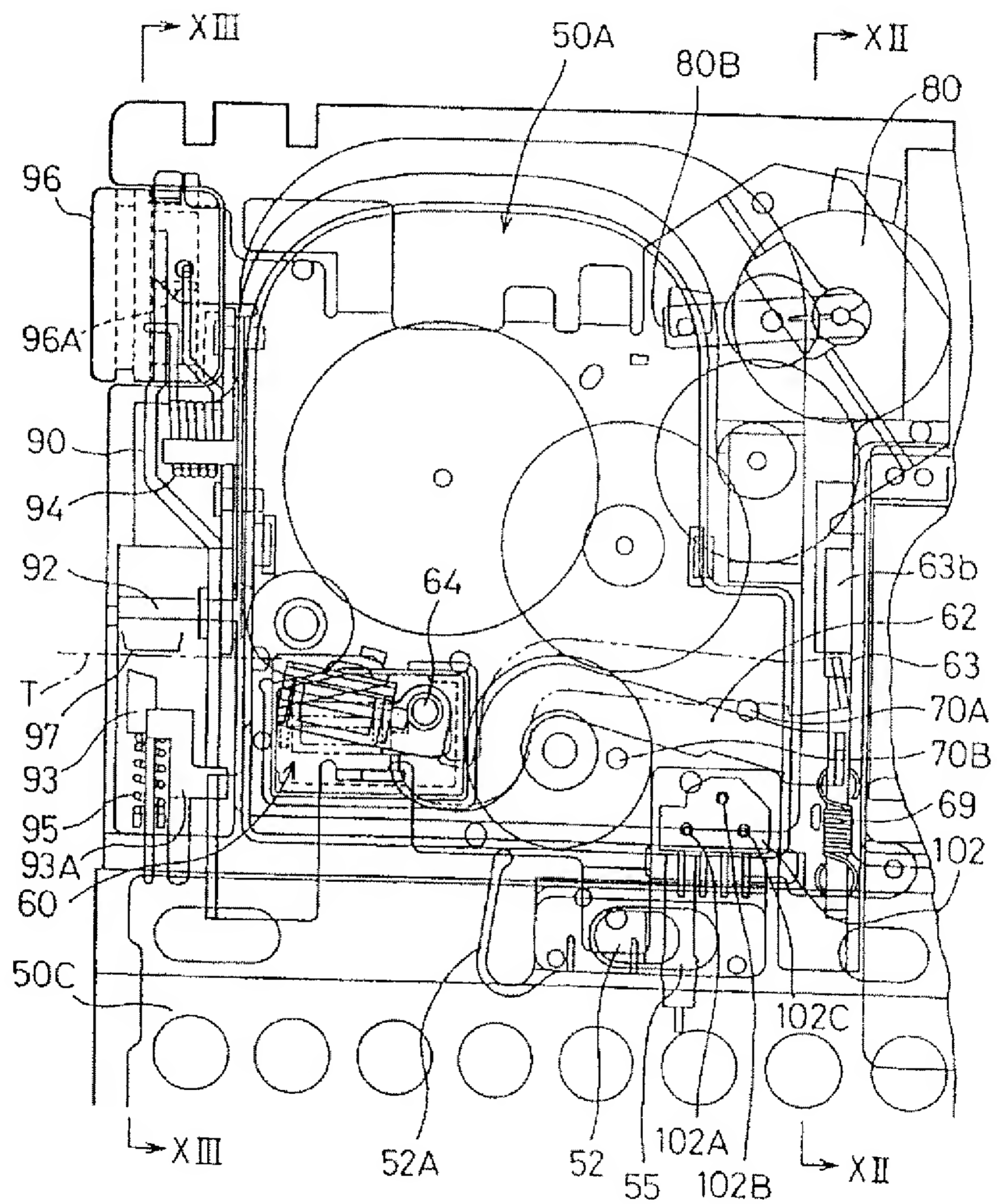


图 11

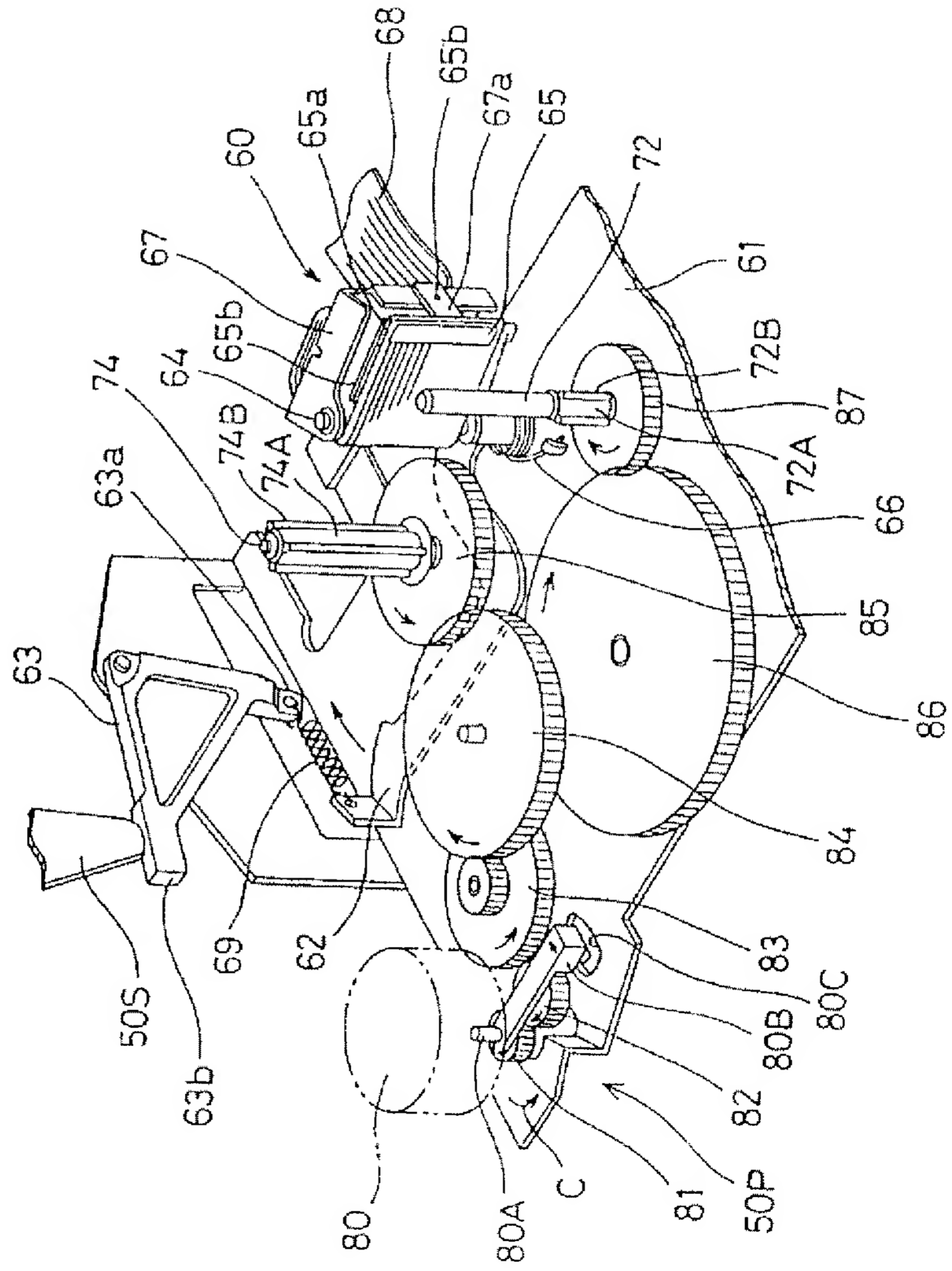
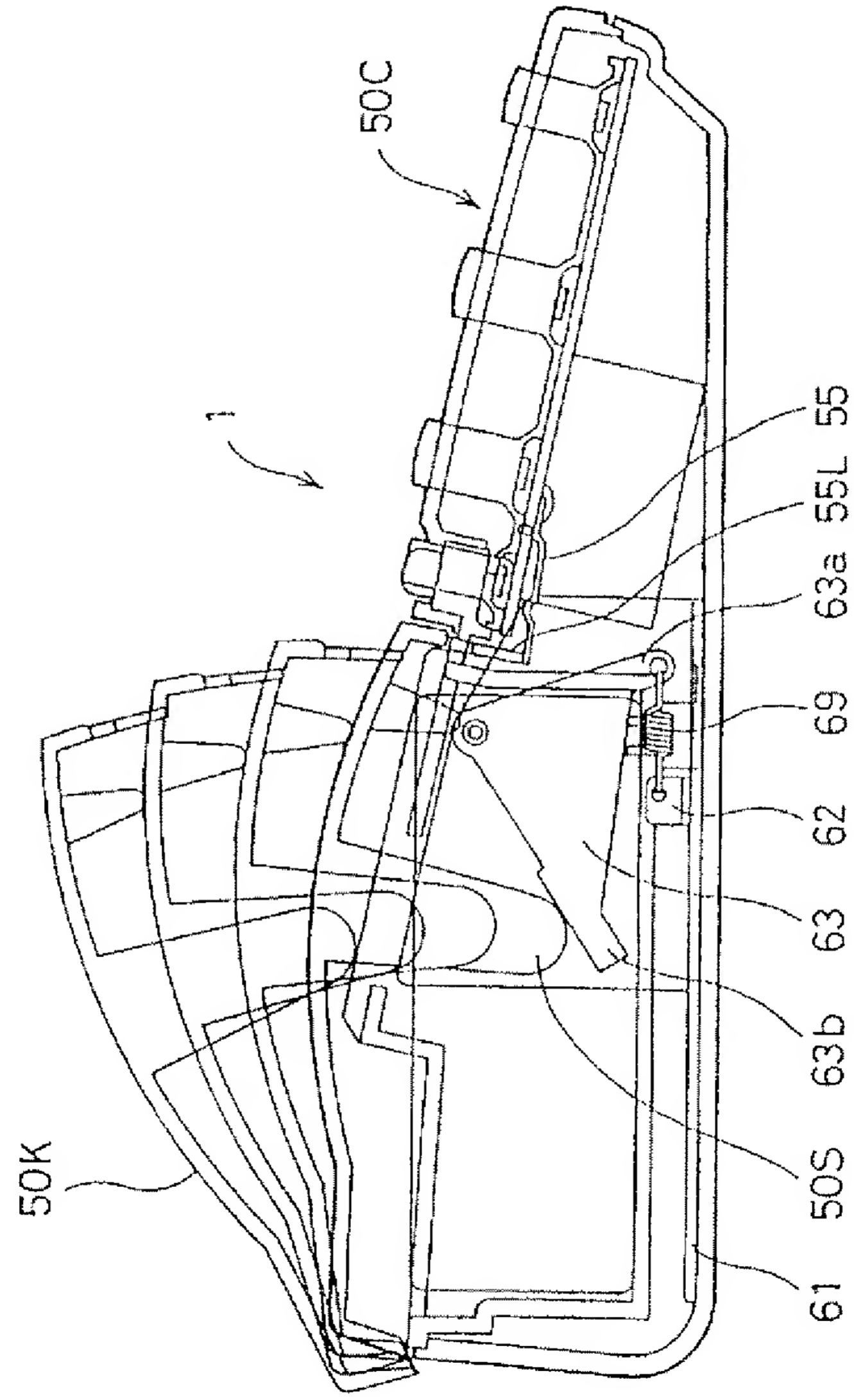
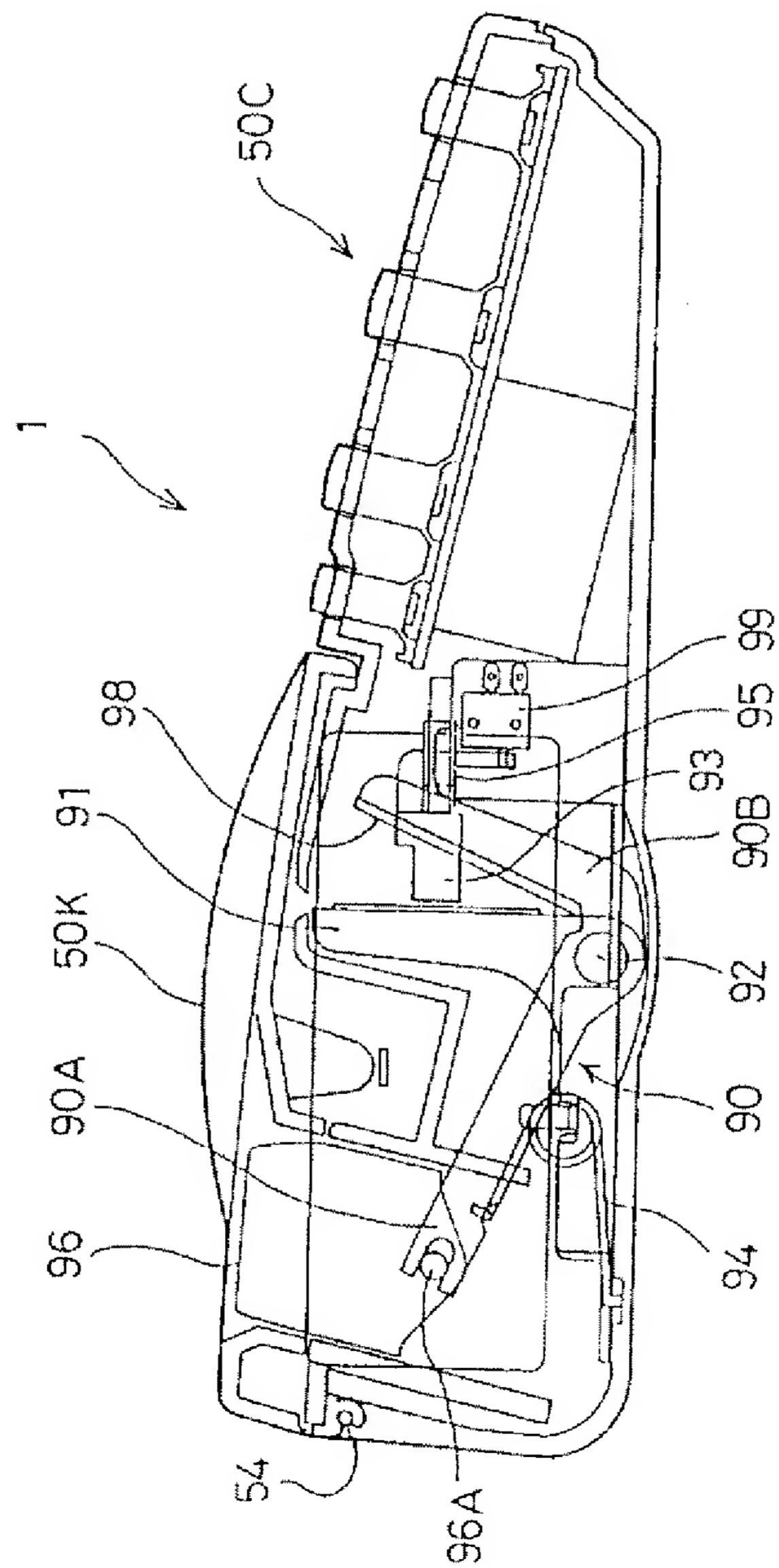


图 12



XII-XII 端视图

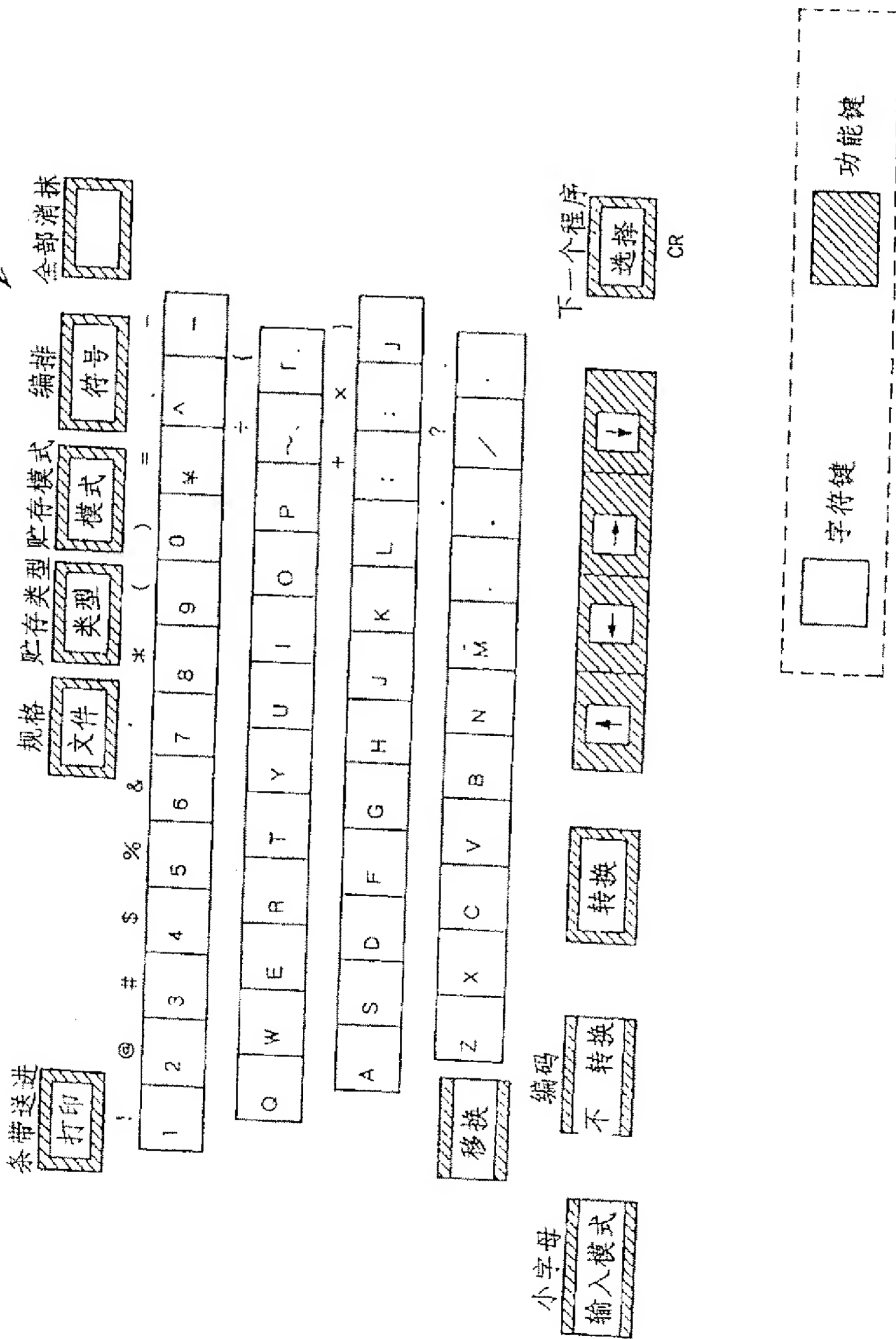
图 13



XIII-XIII 端视图

[illegible]

图 15 50C



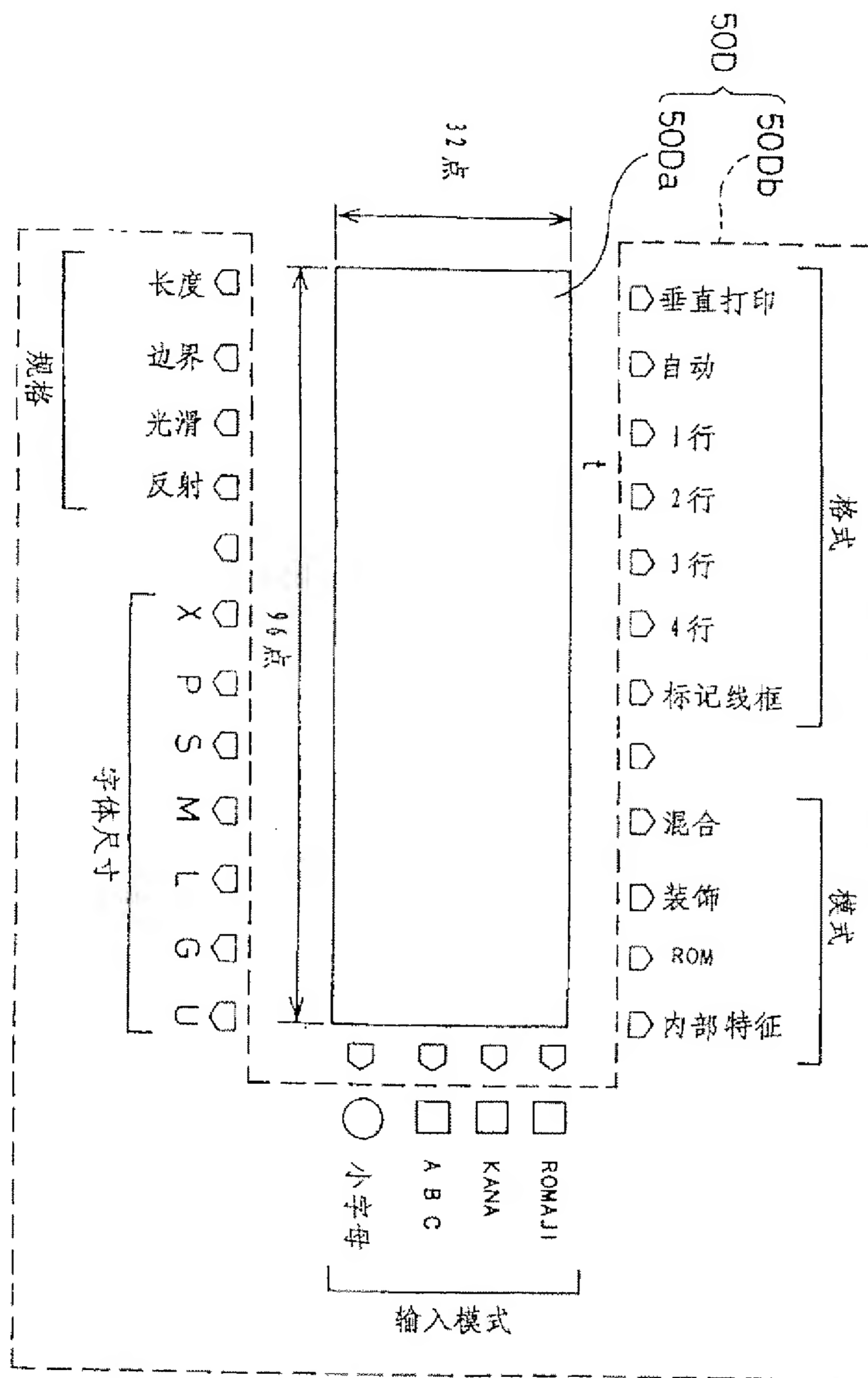


图 1 6

图 17

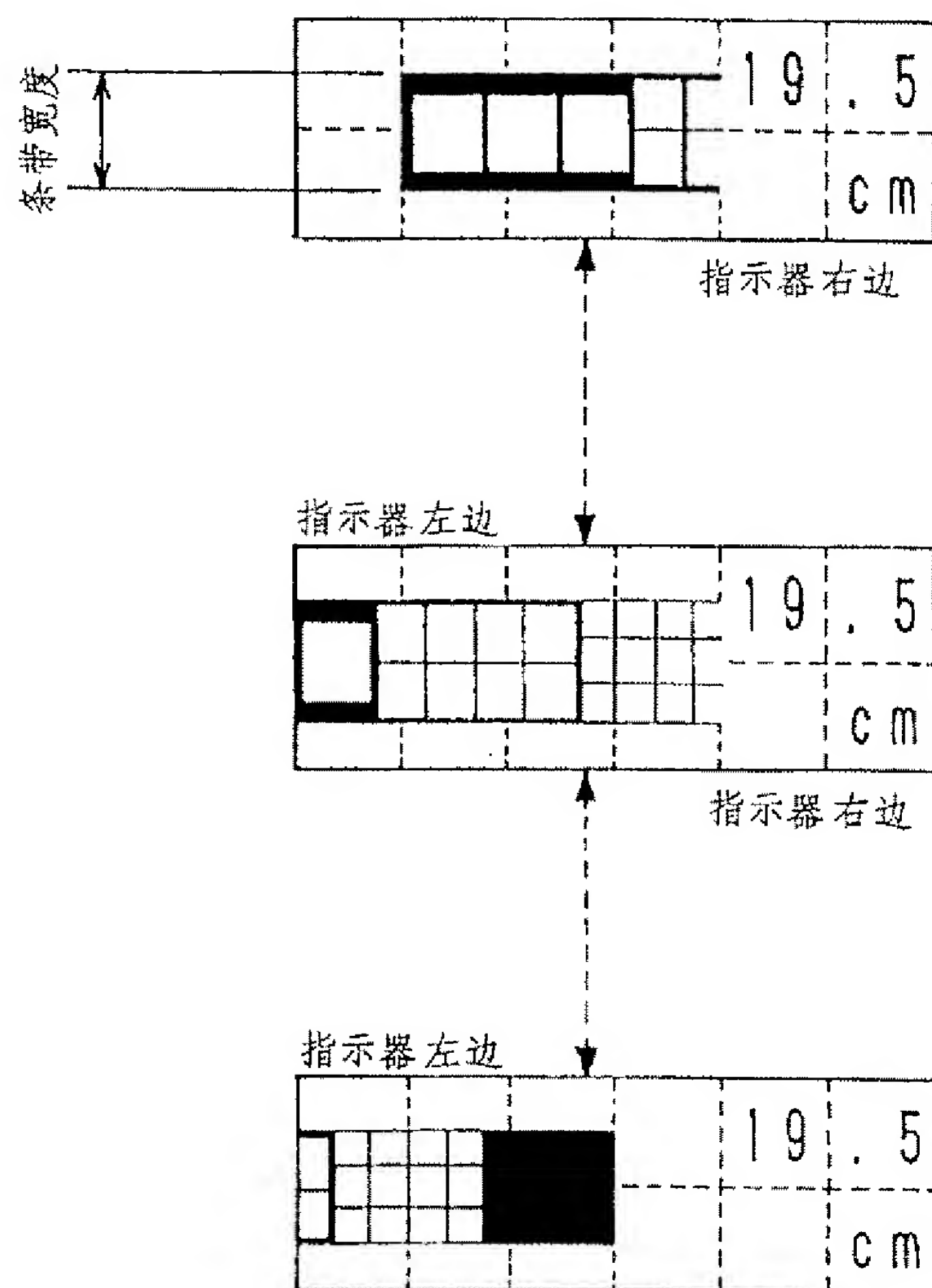


图 18

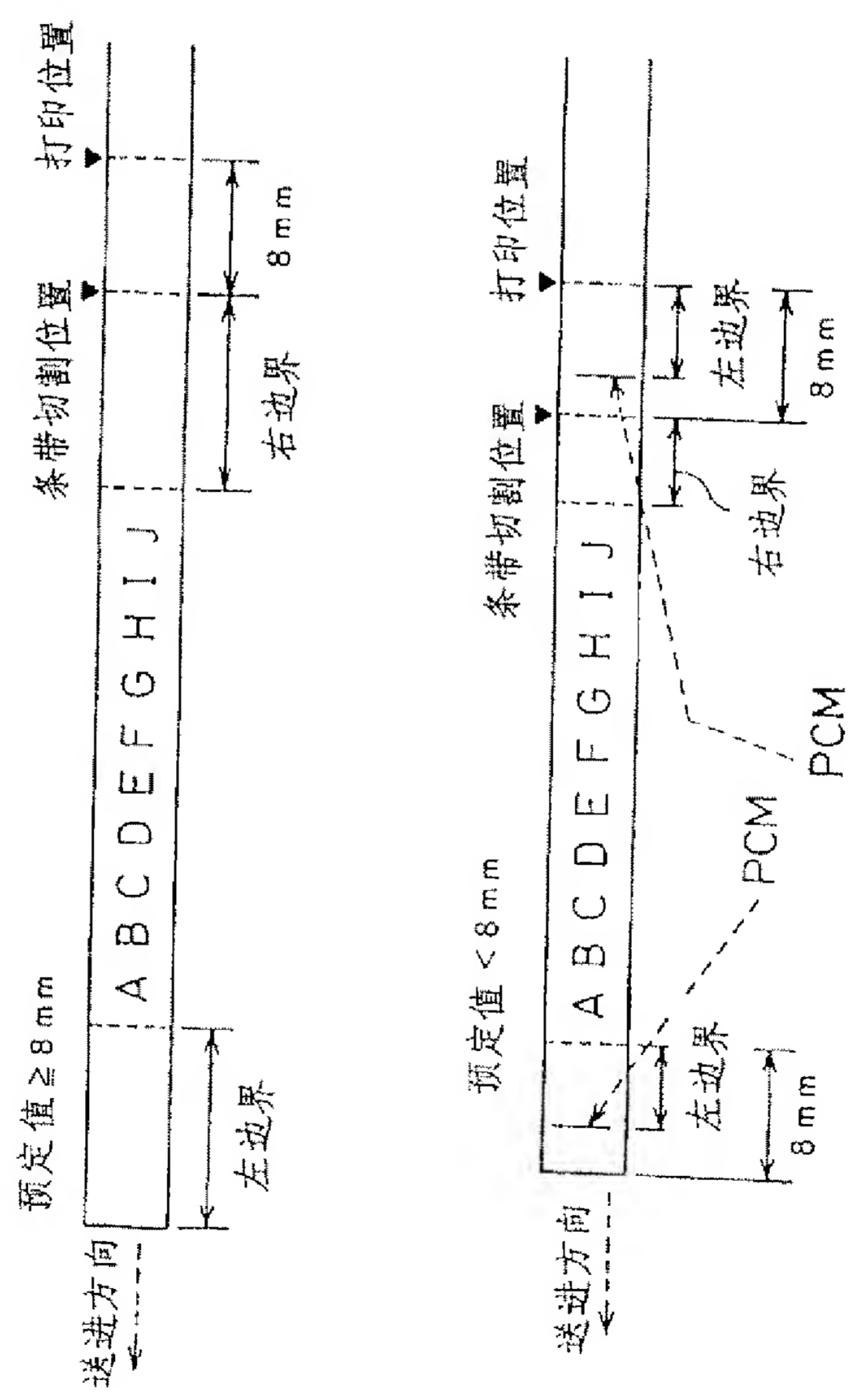


图 19

字体名称	点数	注解
P	16 dot	标准字体
S	24 dot	标准字体
M	32 dot	标准字体
L	48 dot	标准字体
XM	32 dot × 64 dot	32 dot × 2
XL	48 dot × 96 dot	48 dot × 2
G	64 dot × 64 dot	32 dot × 4
U	96 dot × 96 dot	48 dot × 4
XG	64 dot × 128 dot	32 dot × 8
XU	96 dot × 192 dot	48 dot × 8

图 20

用于三行打印的字体图

组合 条带宽	同样 × 3	AAB	ABB	BAA	BBA
1	1	1	1	1	1
12 mm	P × 3	PPS	PSS	SPP	SSP
18 mm	S × 3	SSM	PMM	MSS	MMS
1	1	1	1	1	1

A: 小

B: 大

图 2 1

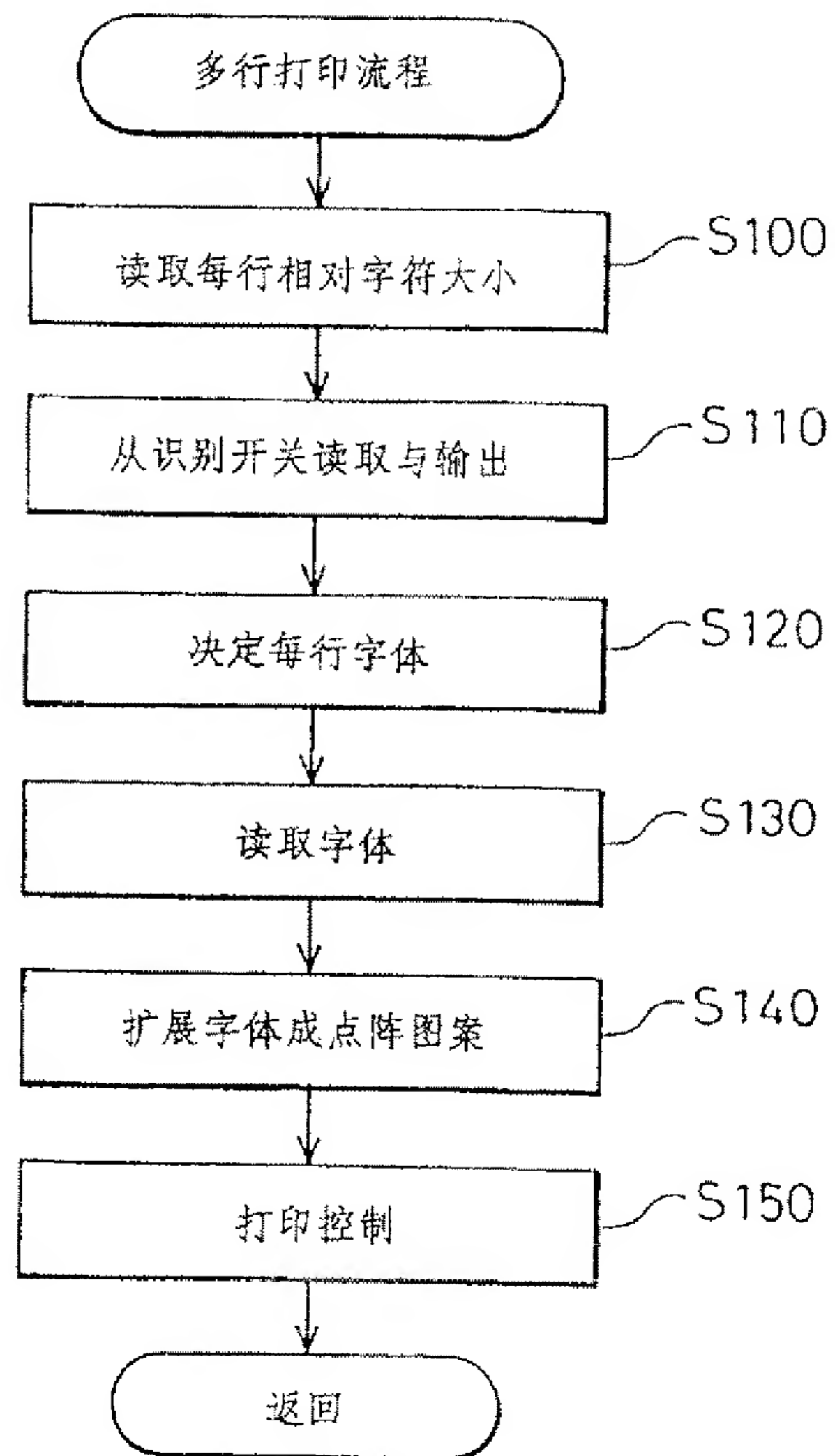


图 2 2 A

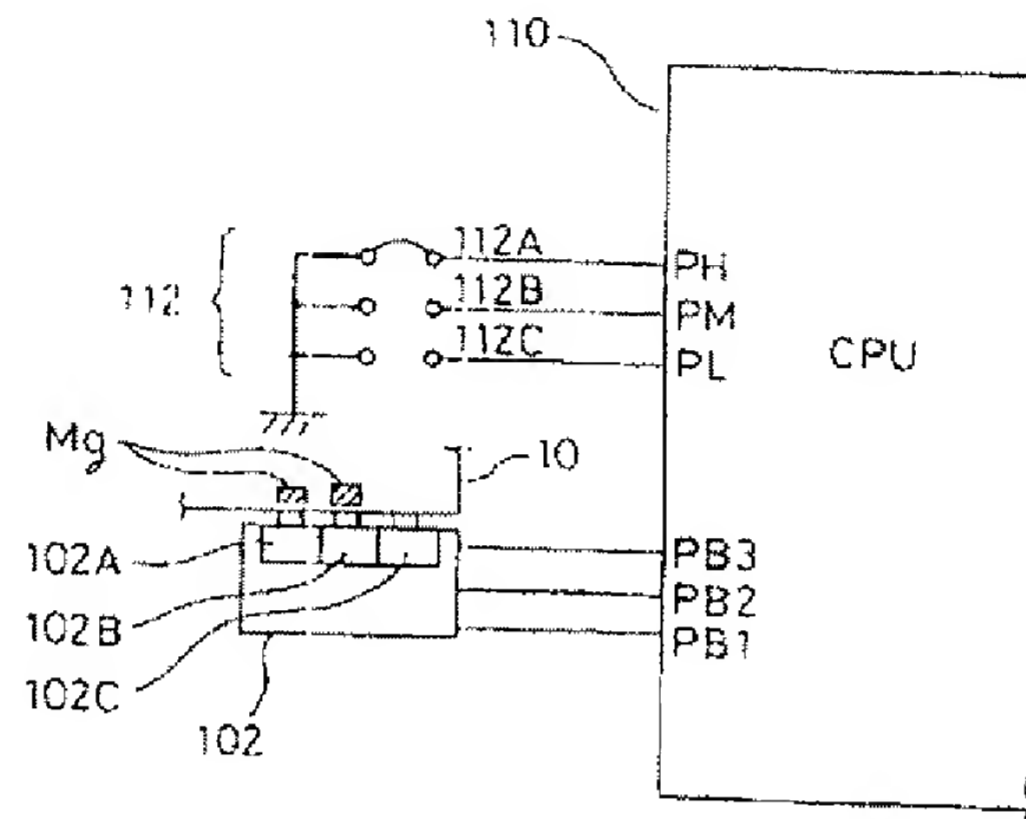


图 2 2 B

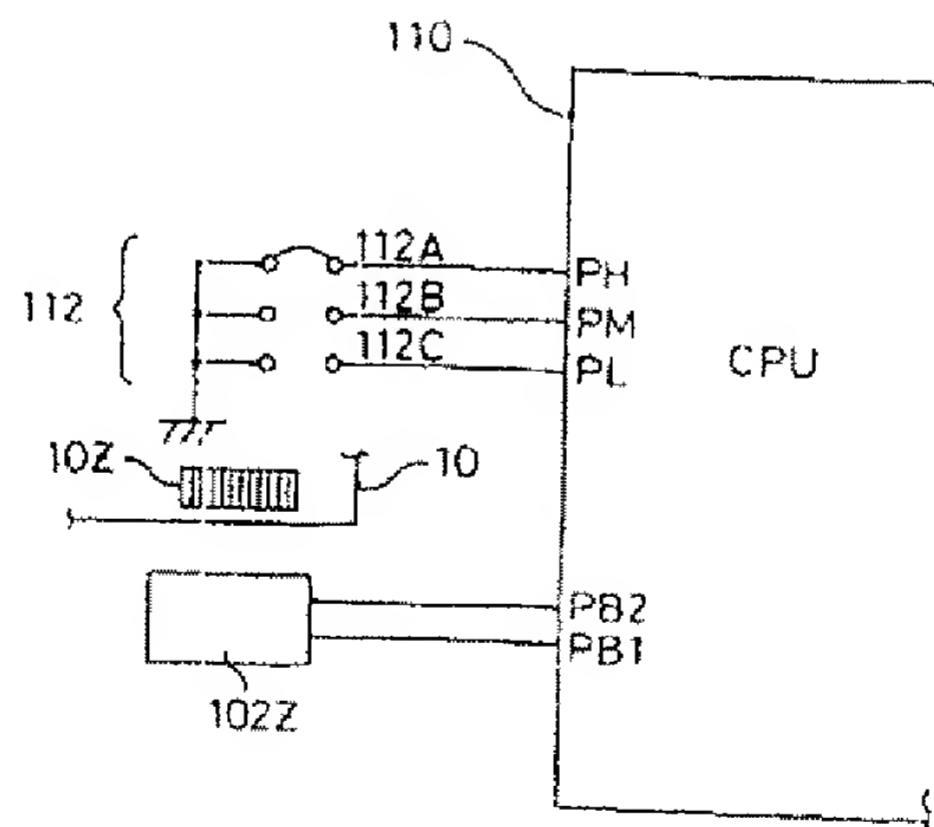


图 2 2 C

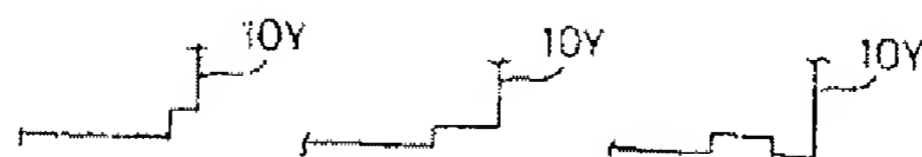




图 24A

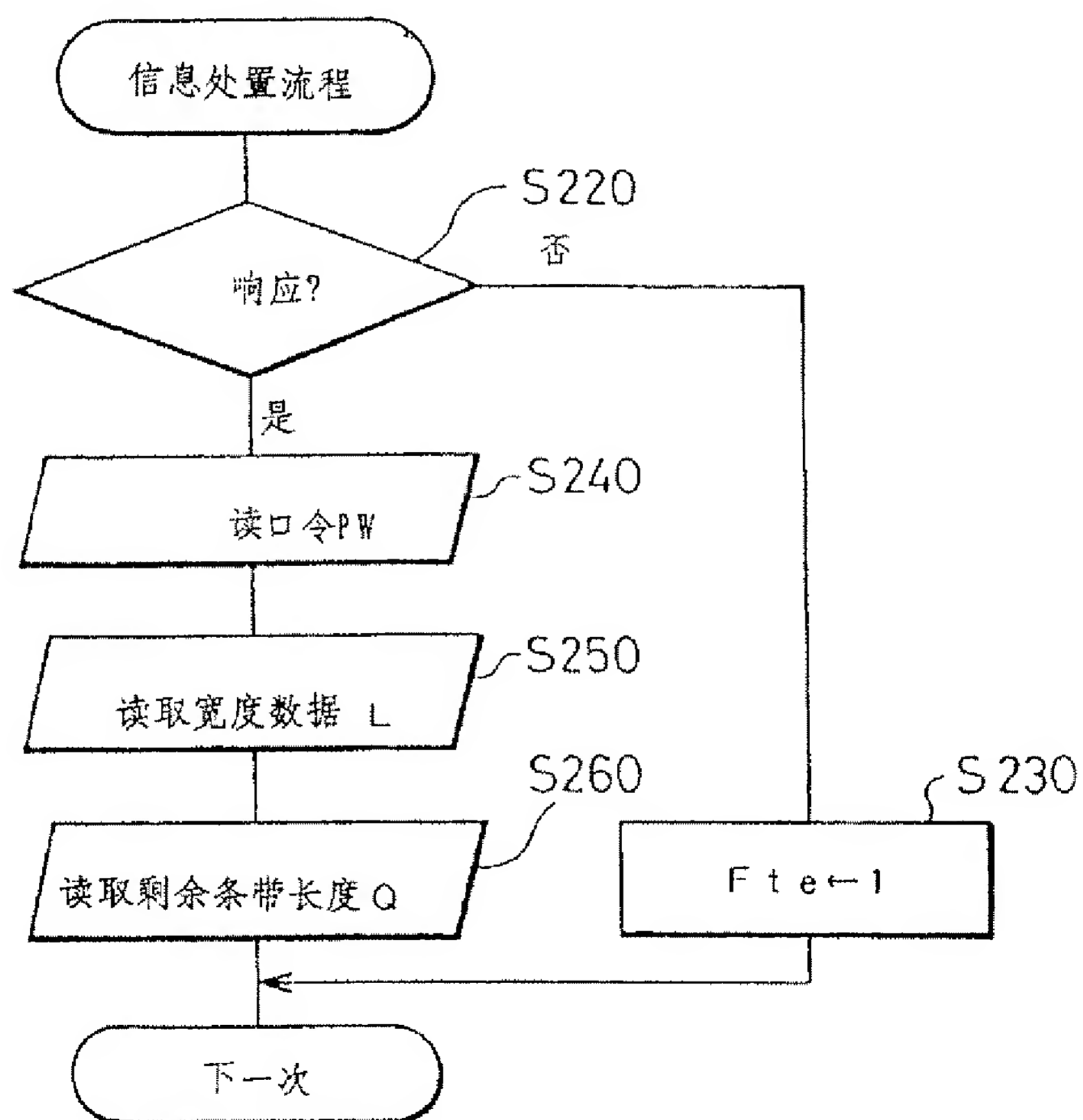


图 24B

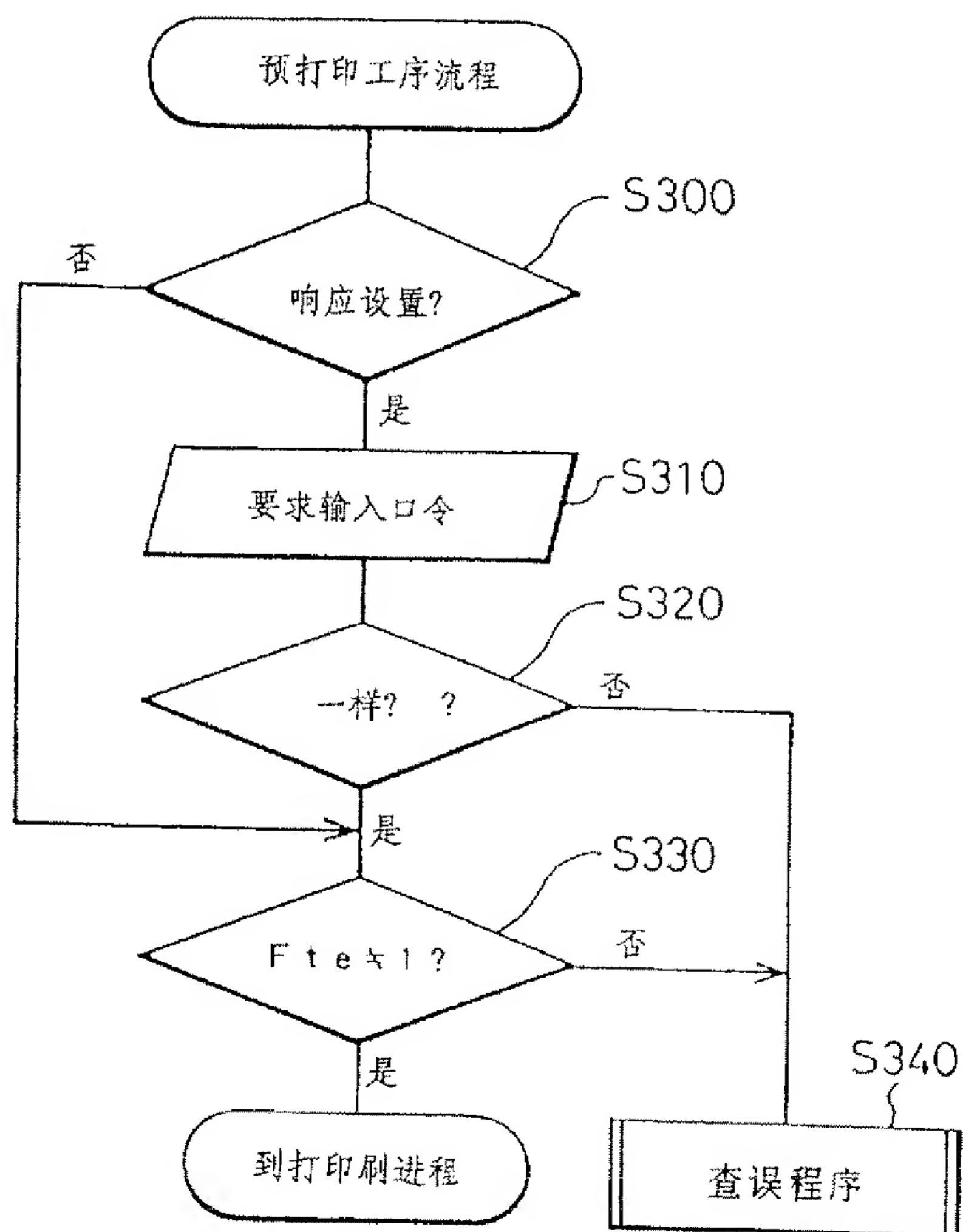


图 2 5

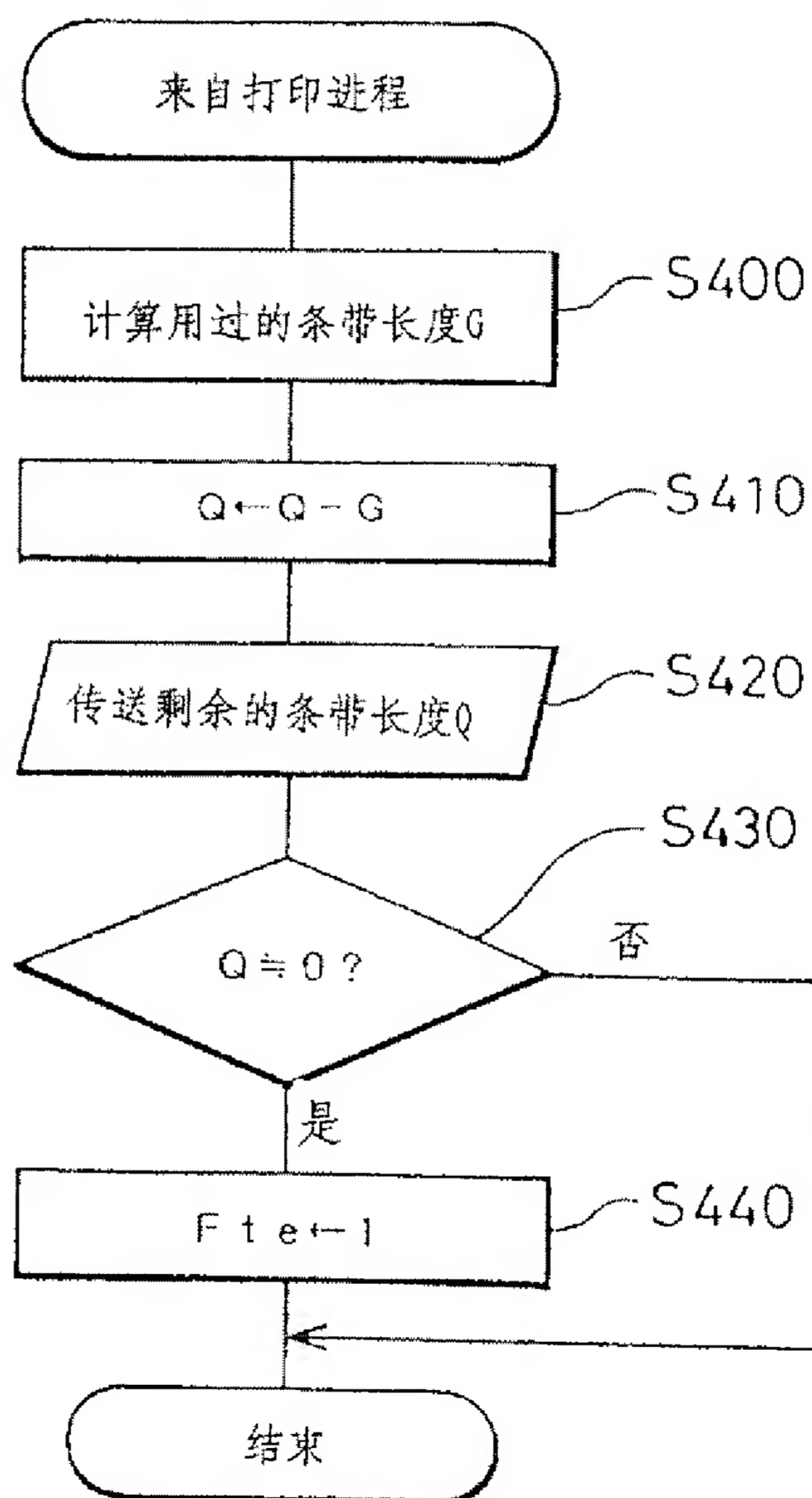


图 26

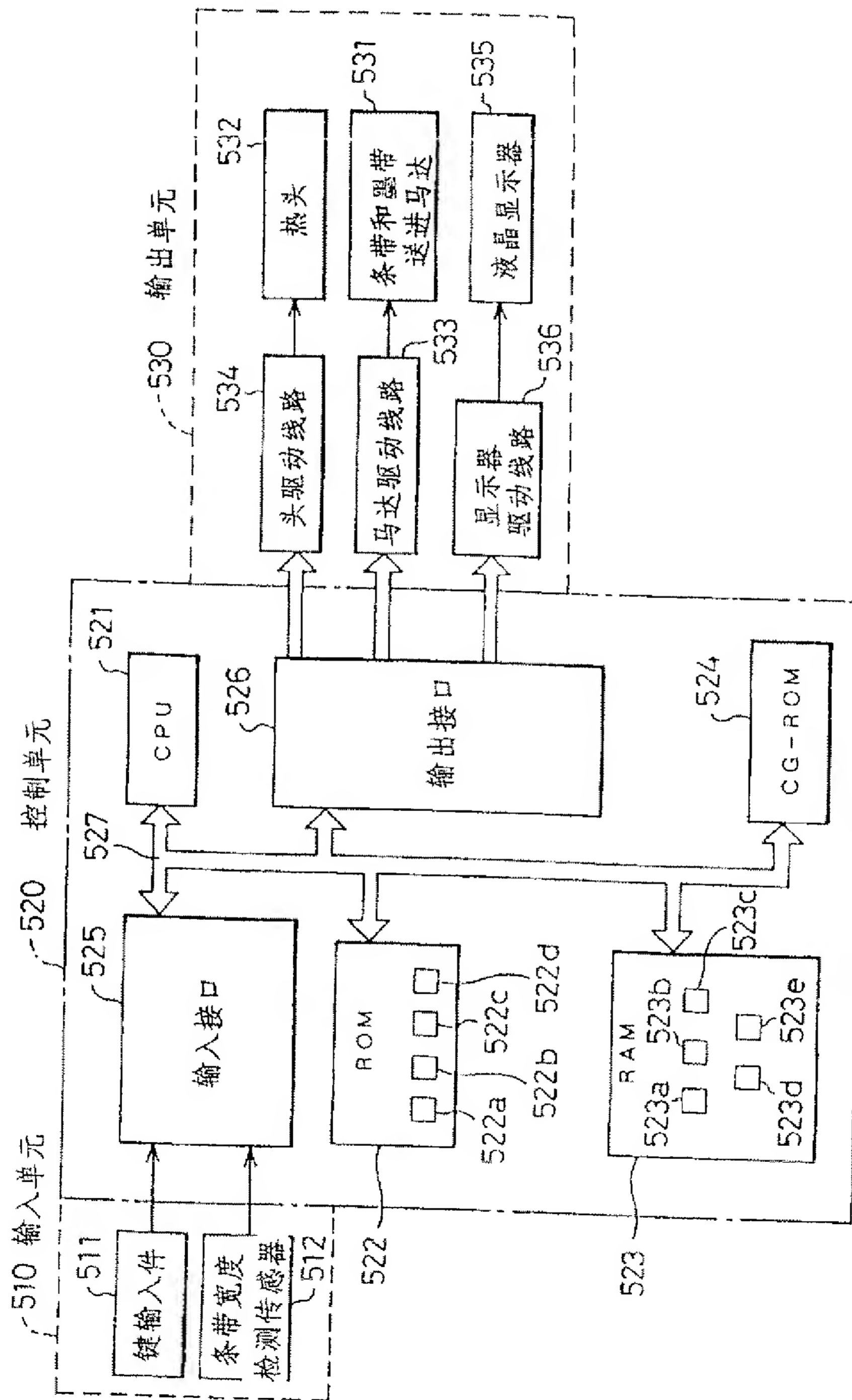


图 27

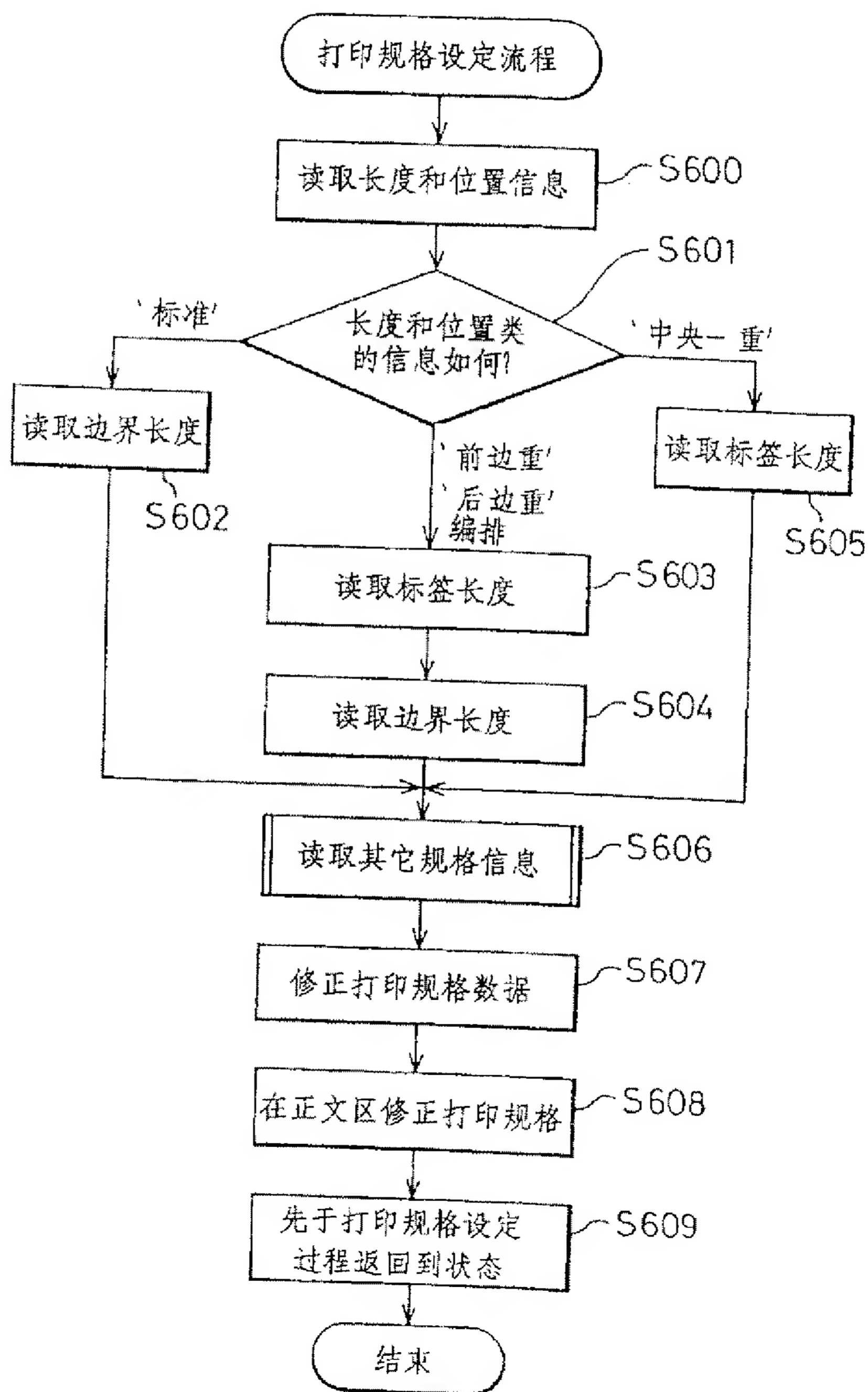


图 2 8

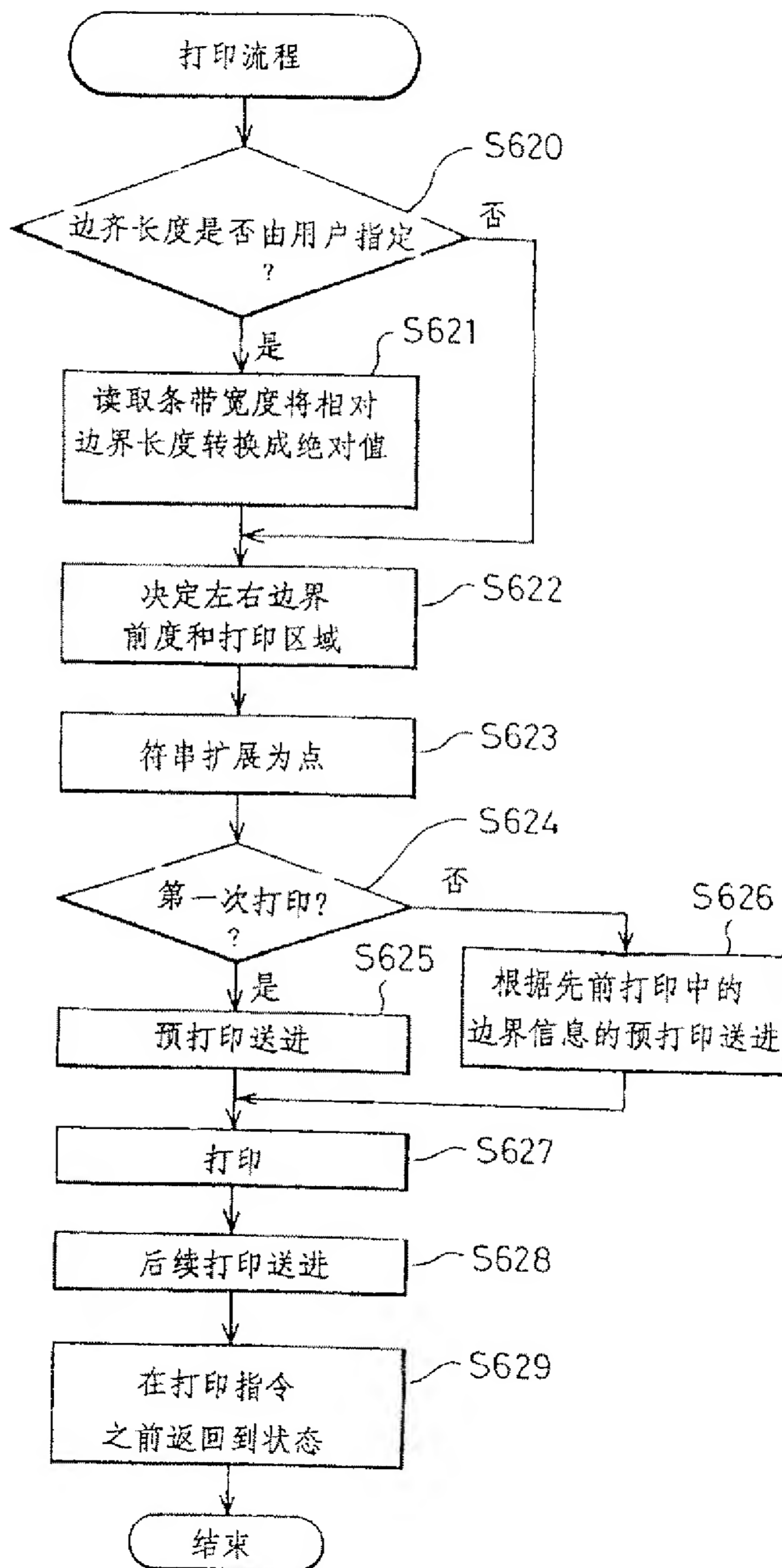


图 2 9

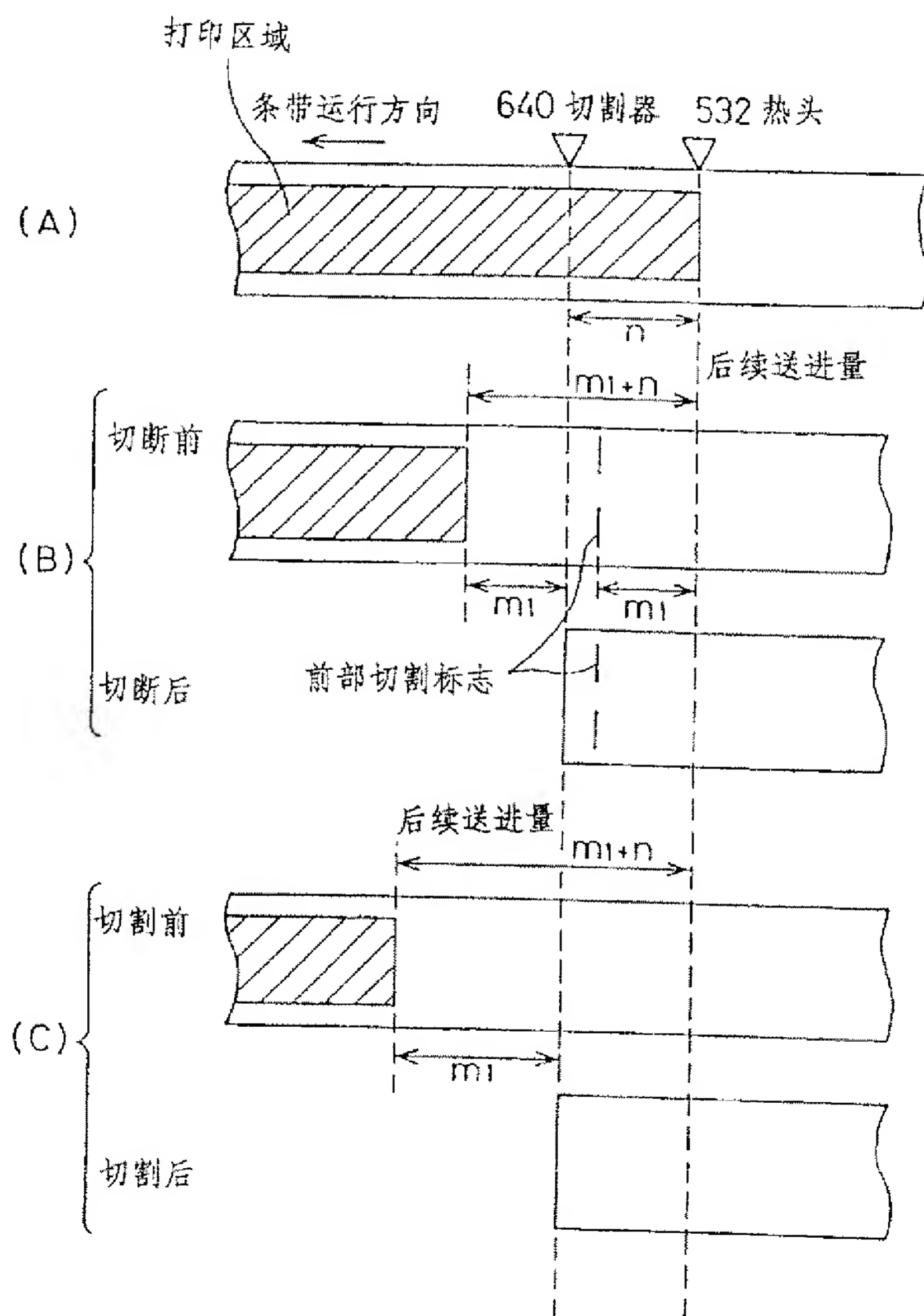


图 30

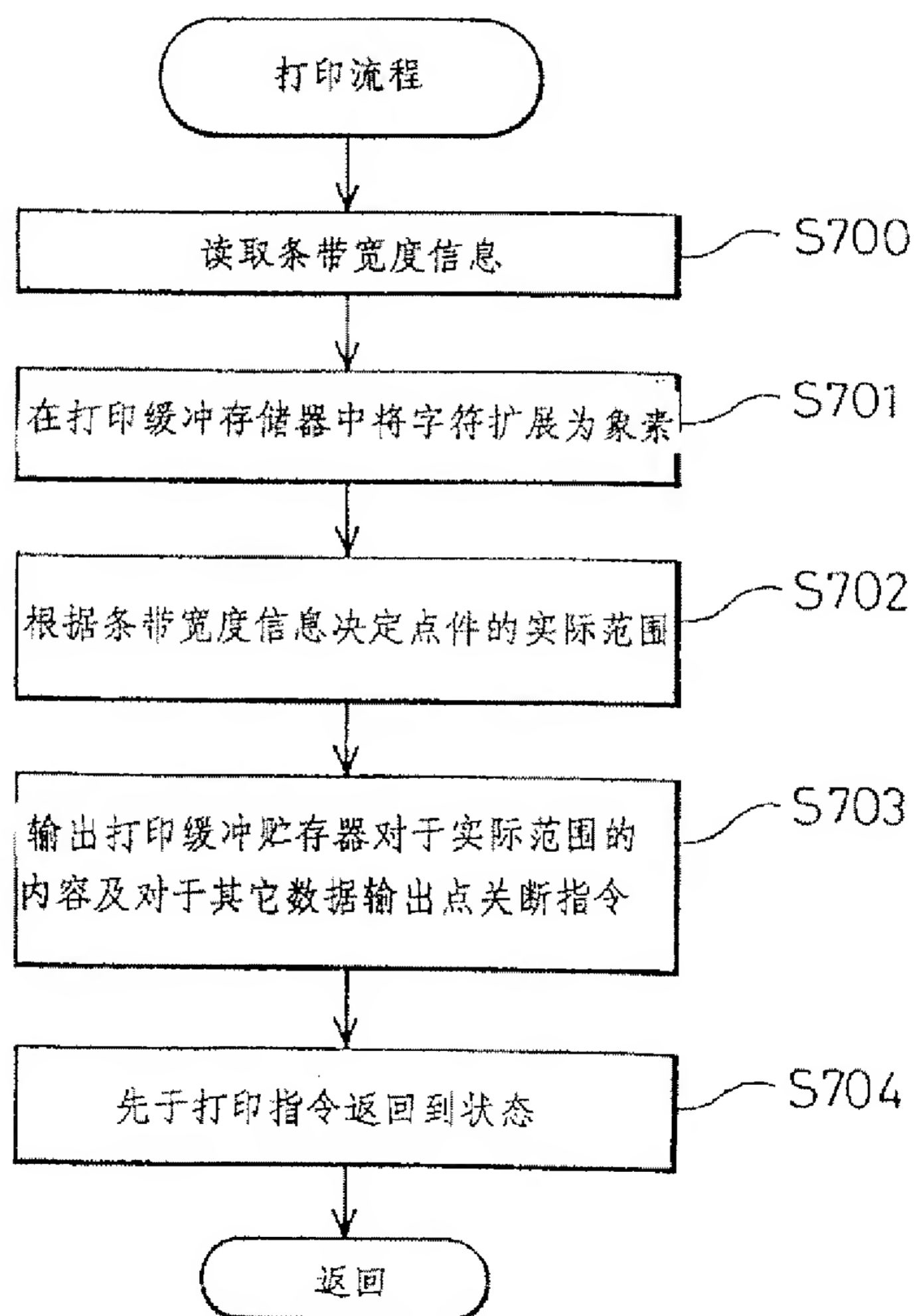


图 3 1

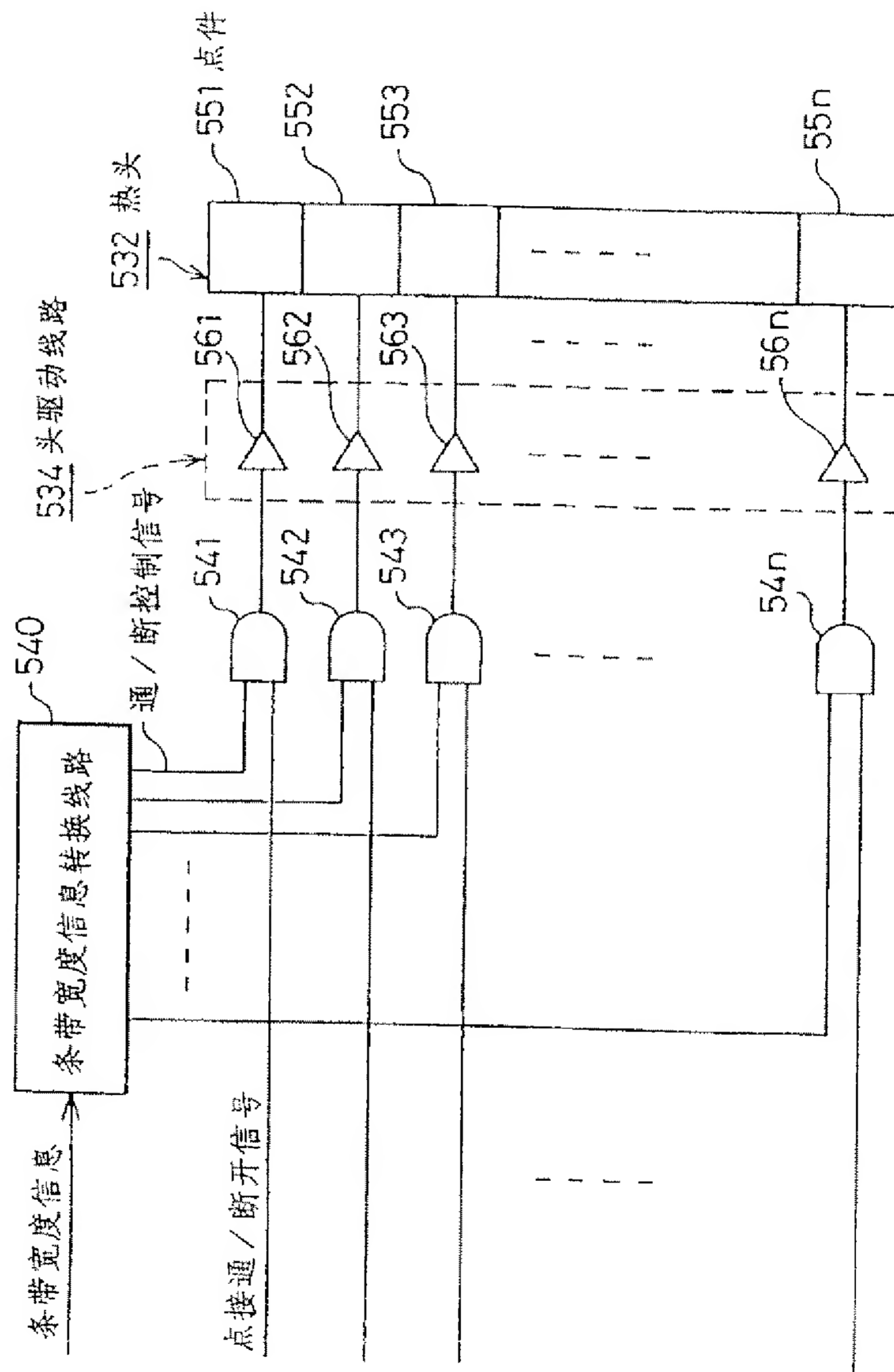


图 3 2

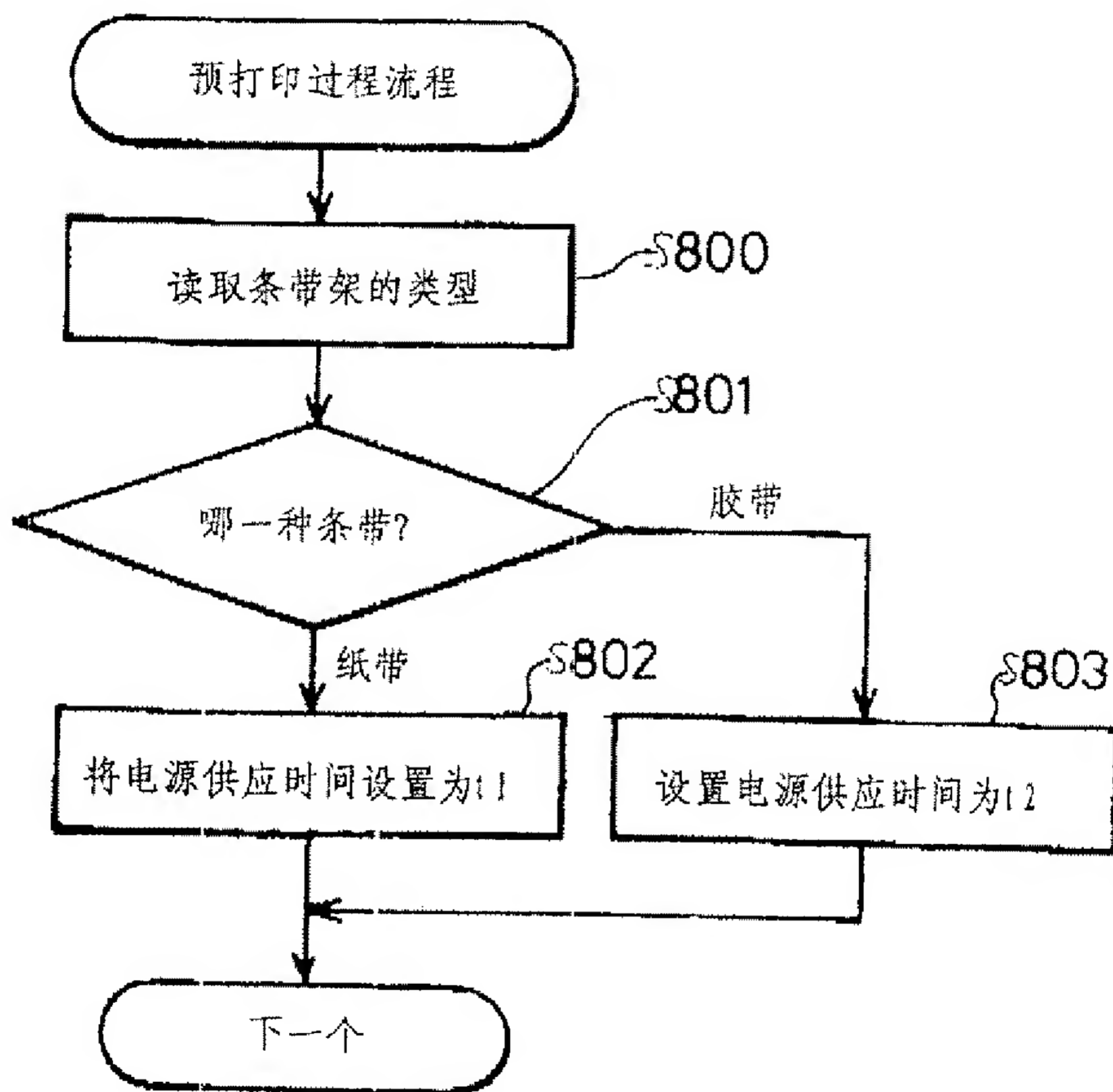


图 33

